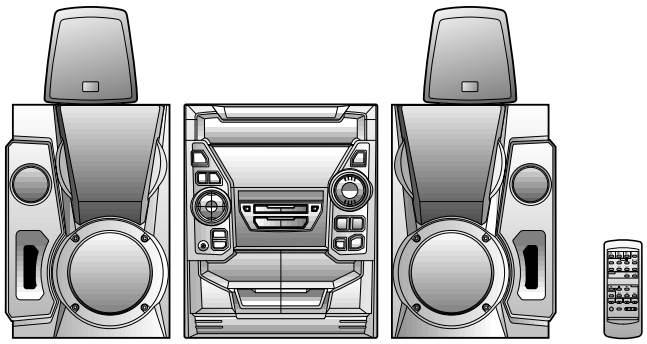
SHARP SERVICE MANUAL

No. S7060CDBA180/



MINI COMPONENT SYSTEM

MODEL CD-BA180

CD-BA180 Mini Component System consisting of CD-BA180 (main unit), CP-BA180 (front speaker) and GBOXS0040AWM1 (rear speaker).

COMPACT disc DIGITAL AUDIO

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

This Service Manual is for the CD-BA180, which is a minor-modification model of the CD-BA150. This manual, therefore, describes only the different points from the CD-BA150. Please refer to the CD-BA150 service manual (No.S1003CDBA150/) together with this manual.

CD-BA150

Page
OPERATION MANUAL 5
REMOVING AND REINSTALLING THE MAIN PARTS 8
ADJUSTMENT 11
TROUBLESHOOTING (CD SECTION) 35
FUNCTION TABLE OF IC 39

CONTENTS

Page
SPECIFICATIONS 2
NAMES OF PARTS 3
DISASSEMBLY 5
CD TEST MODE 8
BLOCK DIAGRAM 9
SCHEMATIC DIAGRAM / WIRING SIDE OF P.W.BOARD 12
NOTES ON SCHEMATIC DIAGRAM 28
TYPES OF TRANSISTOR AND LED 28
WAVEFORMS OF CD CIRCUIT 29
VOLTAGE 30
FL DISPLAY 31
REPLACEMENT PARTS LIST/EXPLODED VIEW

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

CD-BA180

● General

Power source: AC 120 V, 60 Hz
Power consumption: 105 W
Dimensions: Width; 270 mm
Height; 330 mm
Depth; 375 mm
Weight: 6.2 kg

● Amplifier section

Output power: RMS; 100 W (50 W + 50 W) (10 % T.H.D.)
Input terminals: Video/Auxiliary (audio signal); 500 mV/47 kohms
Output terminals: Front speakers; 8 ohms
Rear speakers; 16 ohms
Headphones; 16-50 ohms (recommended; 32 ohms)

● Compact disc player section

Type: 3-disc multi-play compact disc player
Signal readout: Non-contact, 3-beam semi-conductor laser pickup
D/A converter: 1-bit D/A converter
Frequency response: 20 - 20,000 Hz
Dynamic range: 90 dB (1 kHz)

● Tuner section

Frequency range: FM; 87.5-108 MHz
AM; 530-1,720 kHz

● Cassette deck section

Frequency response: 50-14,000 Hz (Normal tape)
Signal/noise ratio: 55 dB (TAPE 1, playback)
50 dB (TAPE 2, recording/playback)
Wow and flutter: 0.3 % (WRMS)

CP-BA180

Type: 3-way type [10 cm woofer x 2 and 5 cm tweeter]
Maximum input power: 80 W
Rated input power: 40 W
Impedance: 8 ohms
Dimensions: Width; 231.5 mm
Height; 330 mm
Depth; 210 mm
Weight: 3.1 kg/each

GBOXS0040AWM1

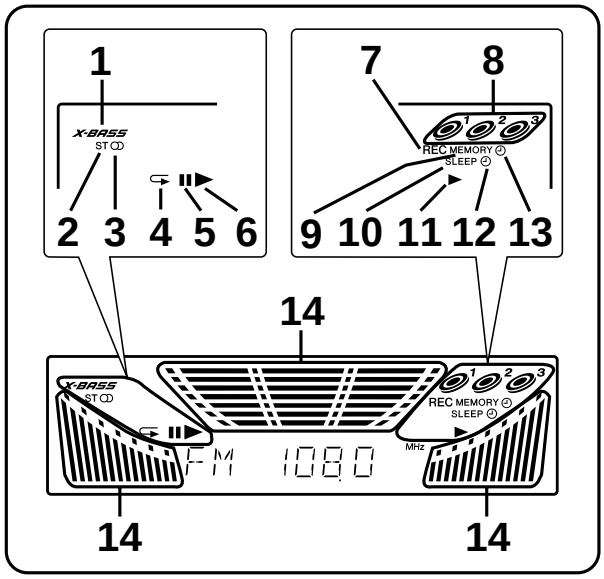
Type: 10 cm full-range speaker
Maximum input power: 30 W
Rated input power: 15 W
Impedance: 16 ohms
Dimensions: Width; 170 mm
Height; 170 mm
Depth; 88 mm
Weight: 0.5 kg/each

Specifications for this model are subject to change without prior notice.

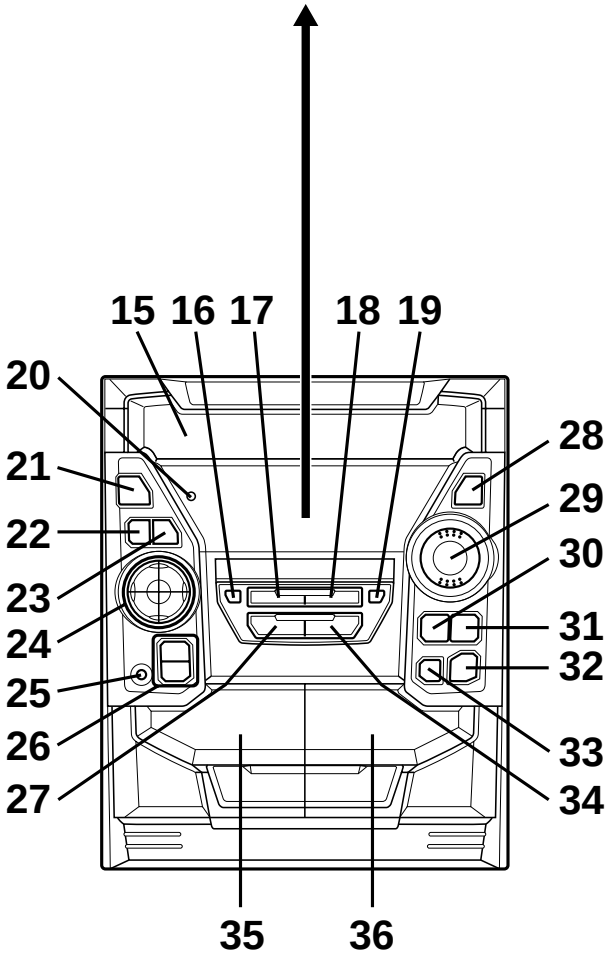
NAMES OF PARTS

CD-BA180

■ Front panel



1. Extra Bass Indicator
2. FM Stereo Mode Indicator
3. FM Stereo Indicator
4. (CD) Repeat Indicator
5. (CD) Pause Indicator
6. (CD) Play Indicator
7. Record Indicator
8. (CD) Disc Number Indicators
9. (CD/TUNER) Memory Indicator
10. Sleep Indicator
11. (TAPE) Play Indicator
12. Timer Record Indicator
13. Timer Play Indicator
14. Spectrum Analyzer/Volume Level Indicator



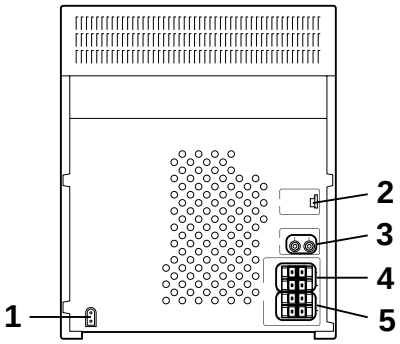
15. (CD) Disc Tray
16. Memory/Set Button
17. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Rewind Button
18. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Forward Button
19. (TAPE 2) Record Pause Button
20. Timer Set Indicator
21. On/Stand-by Button
22. Clock Button
23. Timer/Sleep Button
24. Function Selector Buttons
25. Headphone Socket
26. Tuning and Time Up/Down Buttons
27. (CD/TAPE) Stop Button
28. Dimmer Button
29. Volume Up/Down Buttons
30. Equalizer Mode Selector Button
31. Extra Bass/Demo Mode Button
32. (CD) Open/Close Button
33. (CD) Disc Skip Button
34. (CD) Play/Repeat Button
    (TAPE) Play Button
35. (TAPE 1) Cassette Compartment
36. (TAPE 2) Cassette Compartment

CD-BA180

CD-BA180

■ **Rear panel**

1. AC Power Input Socket
2. FM/AM Loop Aerial Socket
3. Video/Auxiliary (Audio Signal) Input Sockets
4. Front Speaker Terminals
5. Rear Speaker Terminals



■ **Remote control**

1. Remote Control Transmitter LED

● **CD control section**

2. Disc Number Select Buttons
3. Memory Button
4. Pause Button
5. Clear Button
6. Track Down/Review Button
7. Track Up/Cue Button
8. Disc Skip Button
9. Play/Repeat Button
10. Stop Button
11. Random Button

● **Tuner control section**

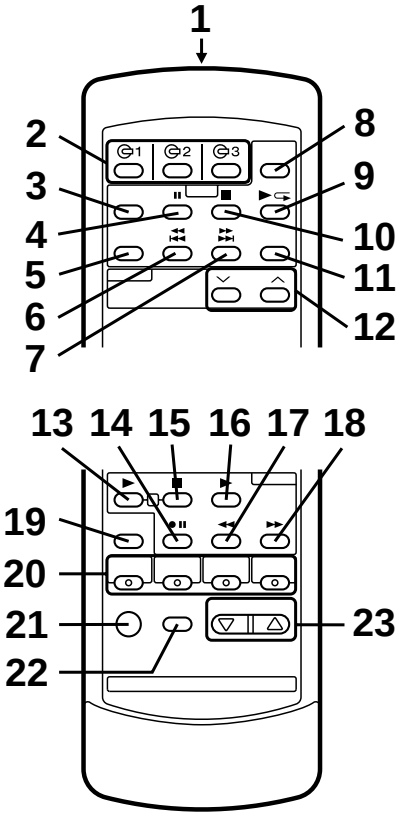
12. Preset Up/Down Buttons

● **Tape control section**

13. (TAPE 1) Play Button
14. (TAPE 2) Record Pause Button
15. (TAPE 1/2) Stop Button
16. (TAPE 2) Play Button
17. (TAPE 2) Rewind Button
18. (TAPE 2) Fast Forward Button

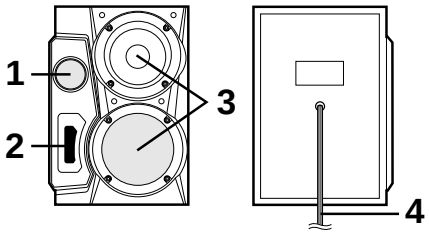
● **Common section**

19. Equalizer Mode Selector Button
20. Function Selector Buttons
21. On/Stand-by Button
22. Extra Bass Button
23. Volume Up/Down Buttons



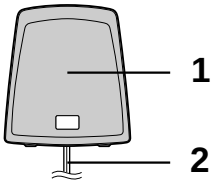
CP-BA180

1. Tweeter
2. Bass Reflex Duct
3. Woofers
4. Speaker Wire



GBOXS0040AWM1

1. Full-Range Speaker
2. Speaker Wire



DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

CD-BA180

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	5-1
2	Side Panel (Left/right)	1. Screw ..... (B1) x8	5-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x2	5-2
4	Main PWB/ Rear Panel	1. Screw ..... (D1) x10 2. Socket ..... (D2) x4 3. Flat Cable ..... (D3) x1 4. Lug Wire ..... (D4) x1 5. Flat Wire ..... (D5) x1	5-2,6-2 6-2
5	Front Panel	1. Screw ..... (E1) x2 2. Hook ..... (E2) x2	6-2
6	Display PWB	1. Screw ..... (F1) x15 2. Flat Cable ..... (F2) x1	6-3
7	Tape Mechanism	1. Open the cassette holder. 2. Screw ..... (G1) x6	6-3
8	Headphones PWB	1. Screw ..... (H1) x1	6-3
9	Turntable	1. Hook ..... (J1) x2 2. Cover ..... (J2) x1	6-4
10	Disc Tray	1. Turn fully the lock lever in the arrow direction. 2. While holding the lock lever,rotate the cam gear until the cam gear rib engages with the clamp lever. 3. Push the slide holder backward to engage the claw with the groove and remove it in the direction of the arrow. ..... (K1) x6	5-3 6-1 6-5
11	CD Servo PWB (Note 2)	1. Screw ..... (L1) x1 2. Hook ..... (L2) x2 3. Socket ..... (L3) x4	6-6
12	CD Mechanism	1. Hook ..... (M1) x2 2. Hook ..... (M2) x3	7-1
13	Loading Motor PWB	1. Hook ..... (N1) x5	7-1

Note 1: How to open the changer manually. (Fig. 5-3)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom.
2. While holding the lock lever, rotate the cam gear anticlockwise until the cam gear rib engages with the clamp lever. (Fig. 6-1)
3. After that, push forward the CD slide holder.

Note 2:

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electro-static damage.

CD-BA180

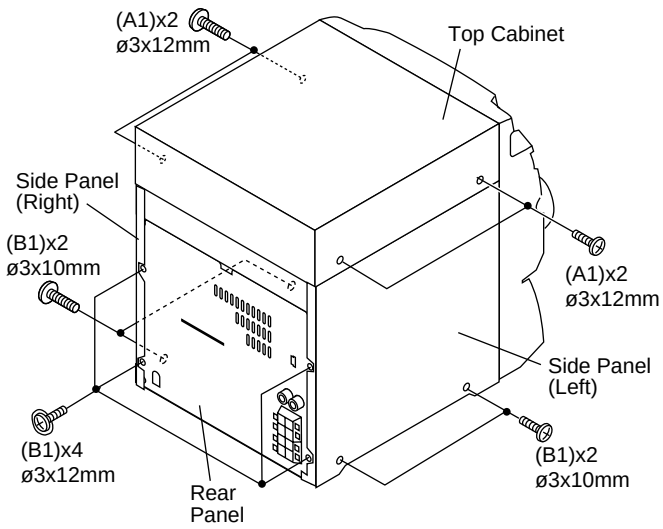


Figure 5-1

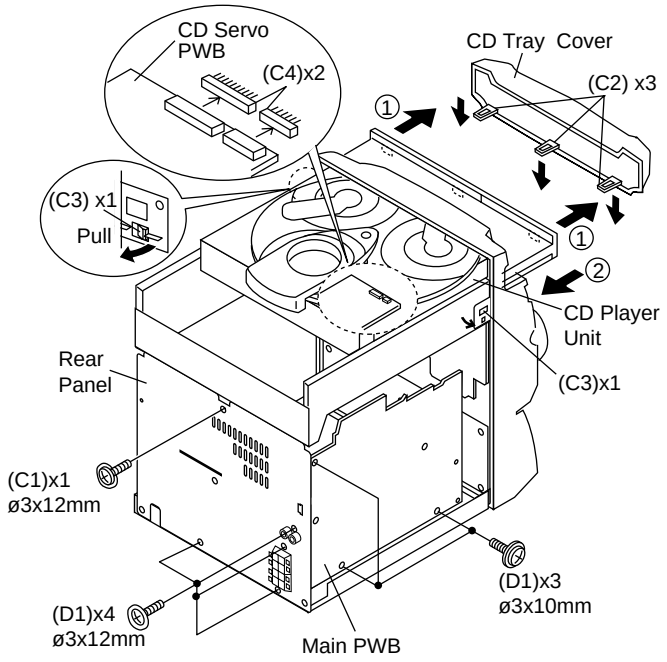


Figure 5-2

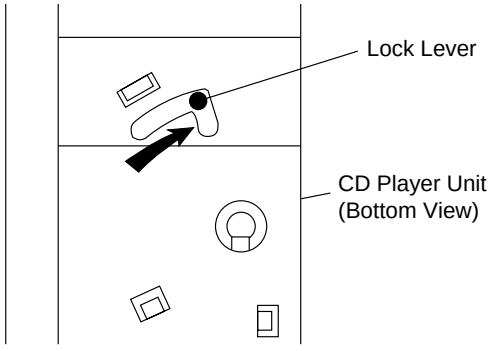


Figure 5-3

Note 3:

1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

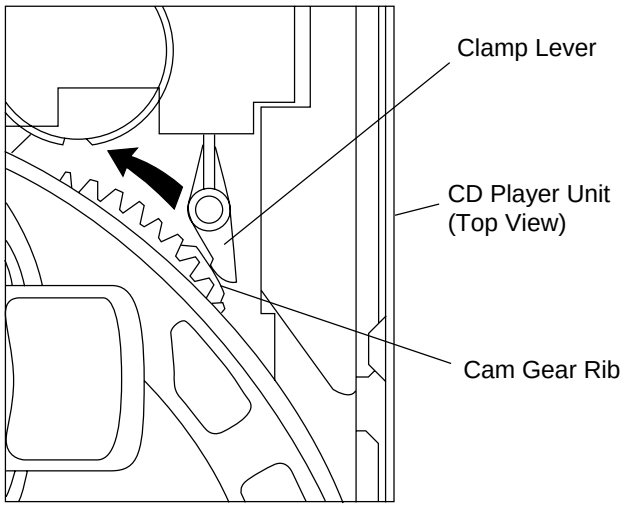


Figure 6-1

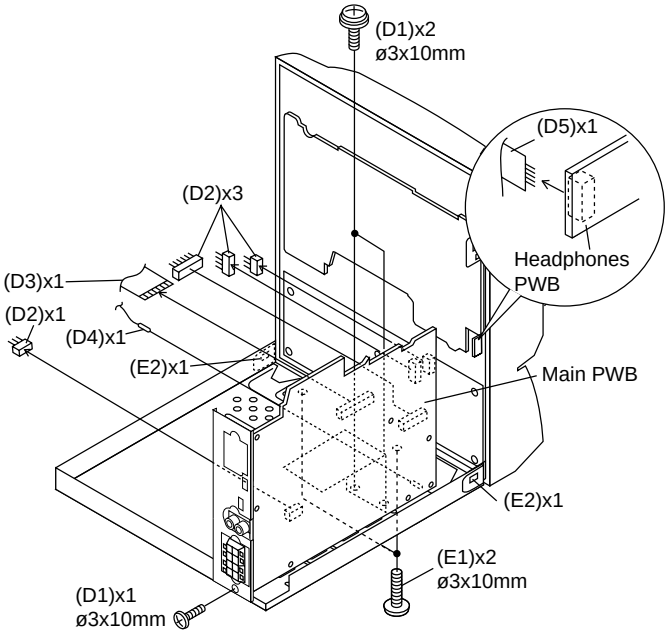


Figure 6-2

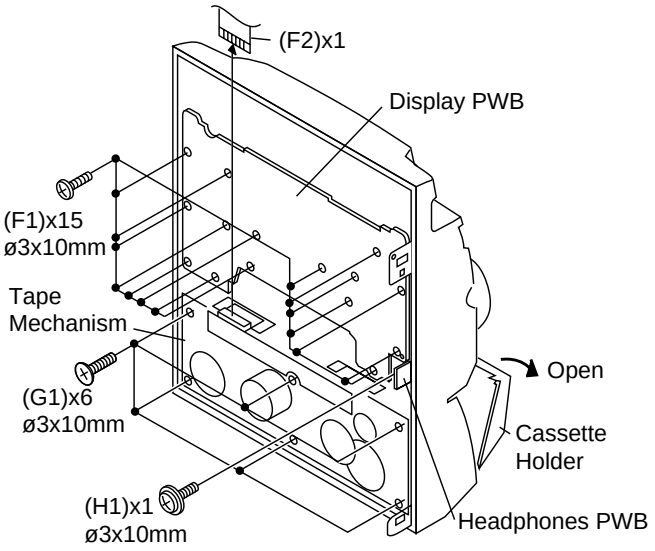


Figure 6-3

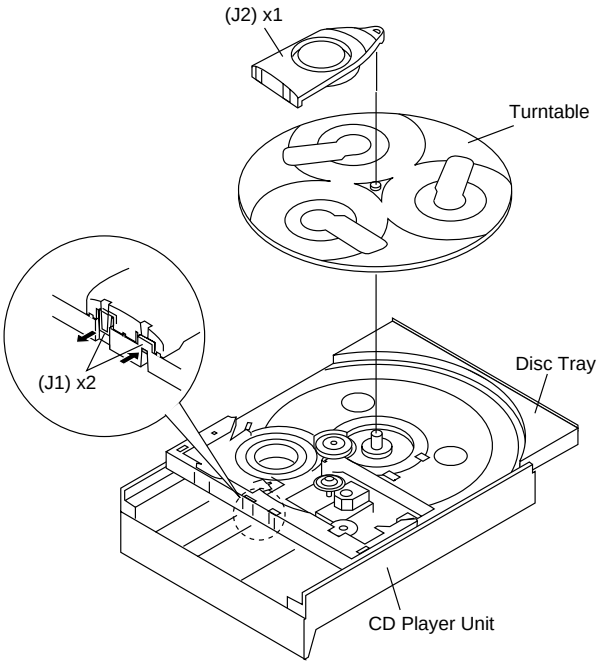


Figure 6-4

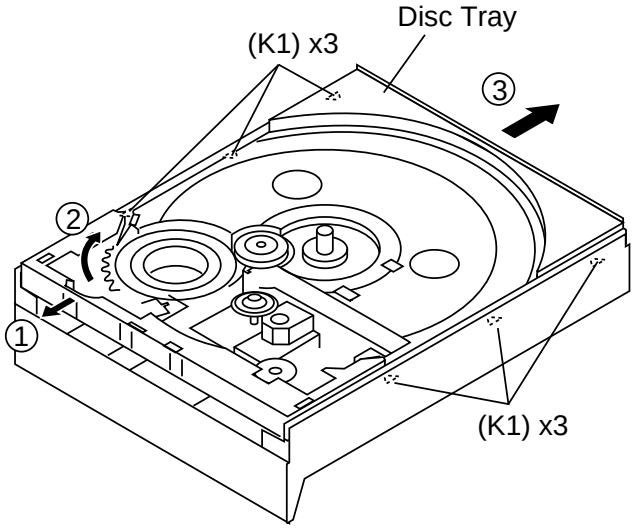


Figure 6-5

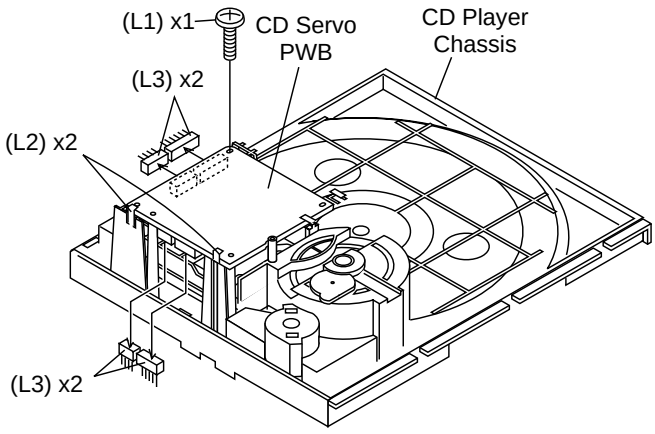


Figure 6-6

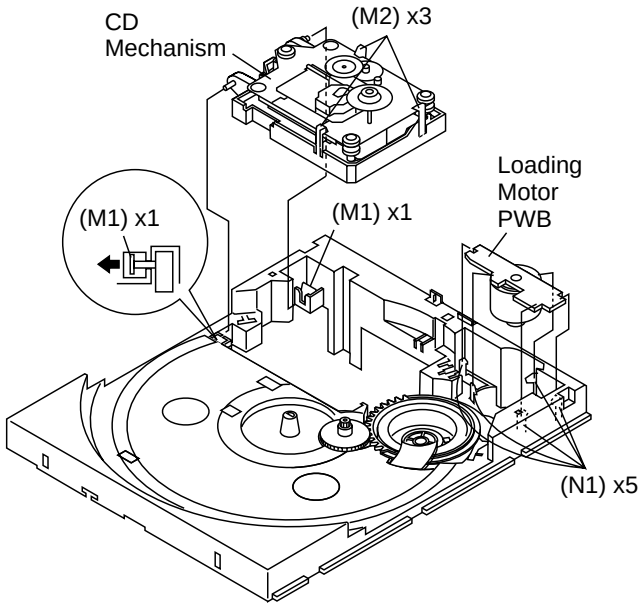


Figure 7-1

CP-BA180

STEP	REMOVAL	PROCEDURE	FIGURE
1	Woofer	1. Front Panel ..... (A1) x1 2. Screw ..... (A2) x8	7-2 7-3
2	Tweeter	1. Screw ..... (B1) x2	7-3

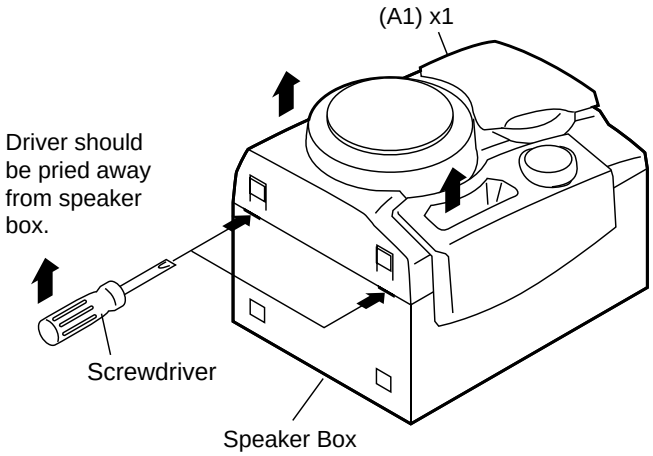


Figure 7-2

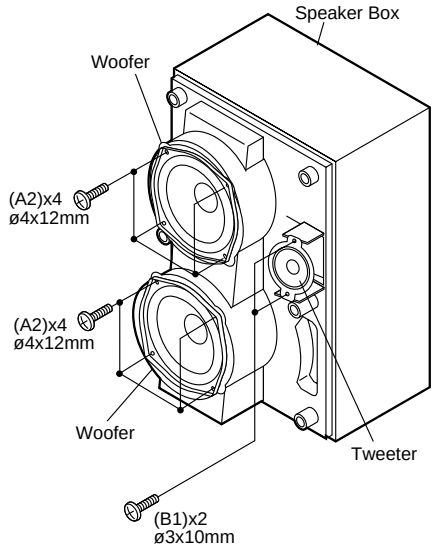
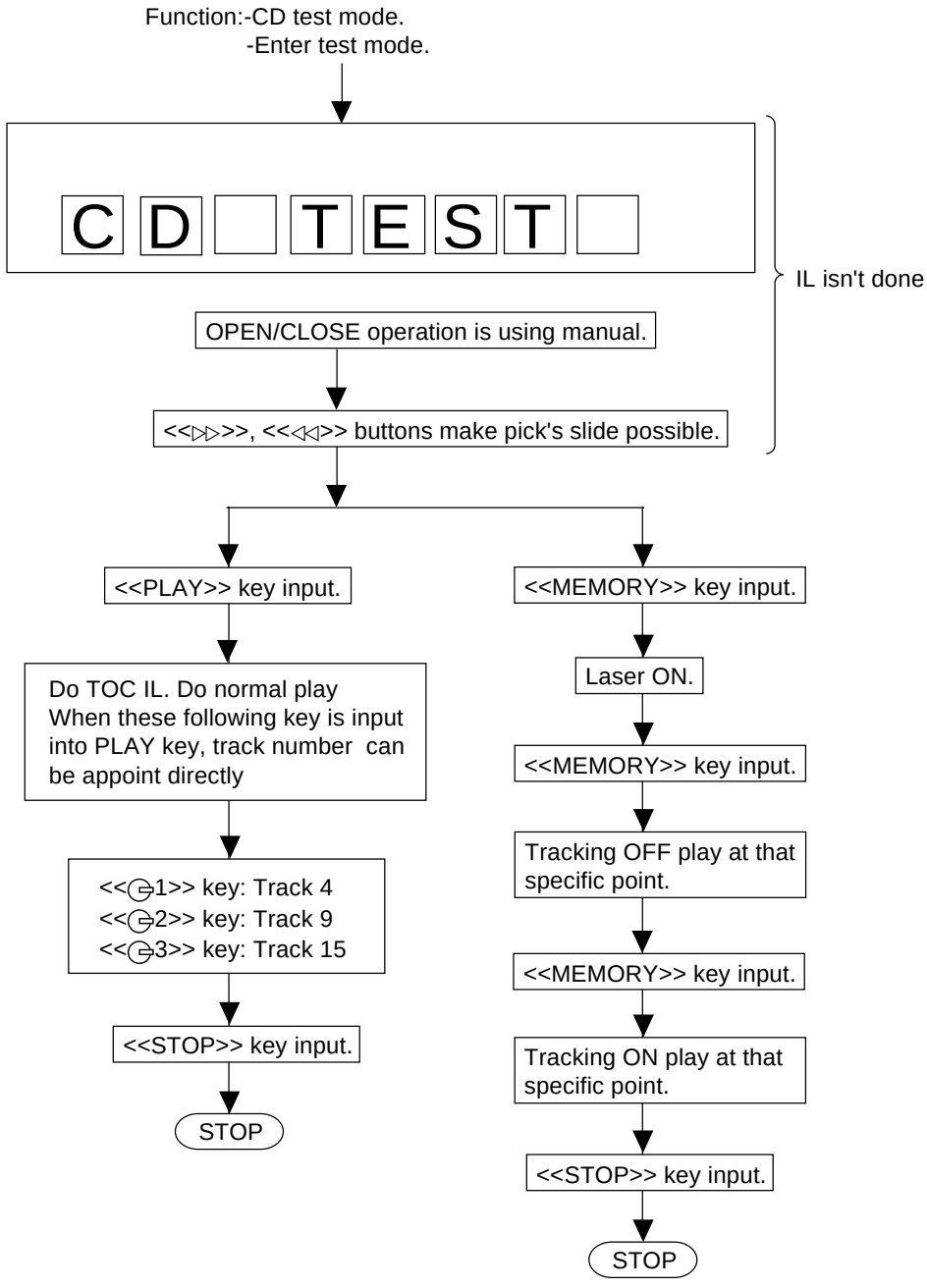


Figure 7-3

TEST MODE

· Setting the test mode

Any one of test mode can be set by pressing several keys as fallows.
<X-BASS> + <CD> + <POWER> TEST:CD operation test


Function:-CD test mode.
-Enter test mode.
C D T E S T
IL isn't done
OPEN/CLOSE operation is using manual.
<<▷▷>>, <<◁◁>> buttons make pick's slide possible.
<<PLAY>> key input.
<<MEMORY>> key input.
Do TOC IL. Do normal play
When these following key is input into PLAY key, track number can be appoint directly
<<⊖1>> key: Track 4
<<⊖2>> key: Track 9
<<⊖3>> key: Track 15
<<STOP>> key input.
STOP
Laser ON.
<<MEMORY>> key input.
Tracking OFF play at that specific point.
<<MEMORY>> key input.
Tracking ON play at that specific point.
<<STOP>> key input.
STOP

VOL — Last memory
BAL — CENTER
P.GEQ — FLAT
X-BASS — OFF

To cancel : Power OFF

Sliding the PICKUP with <<▷▷>>, <<◁◁>> button must only be in STOP mode.

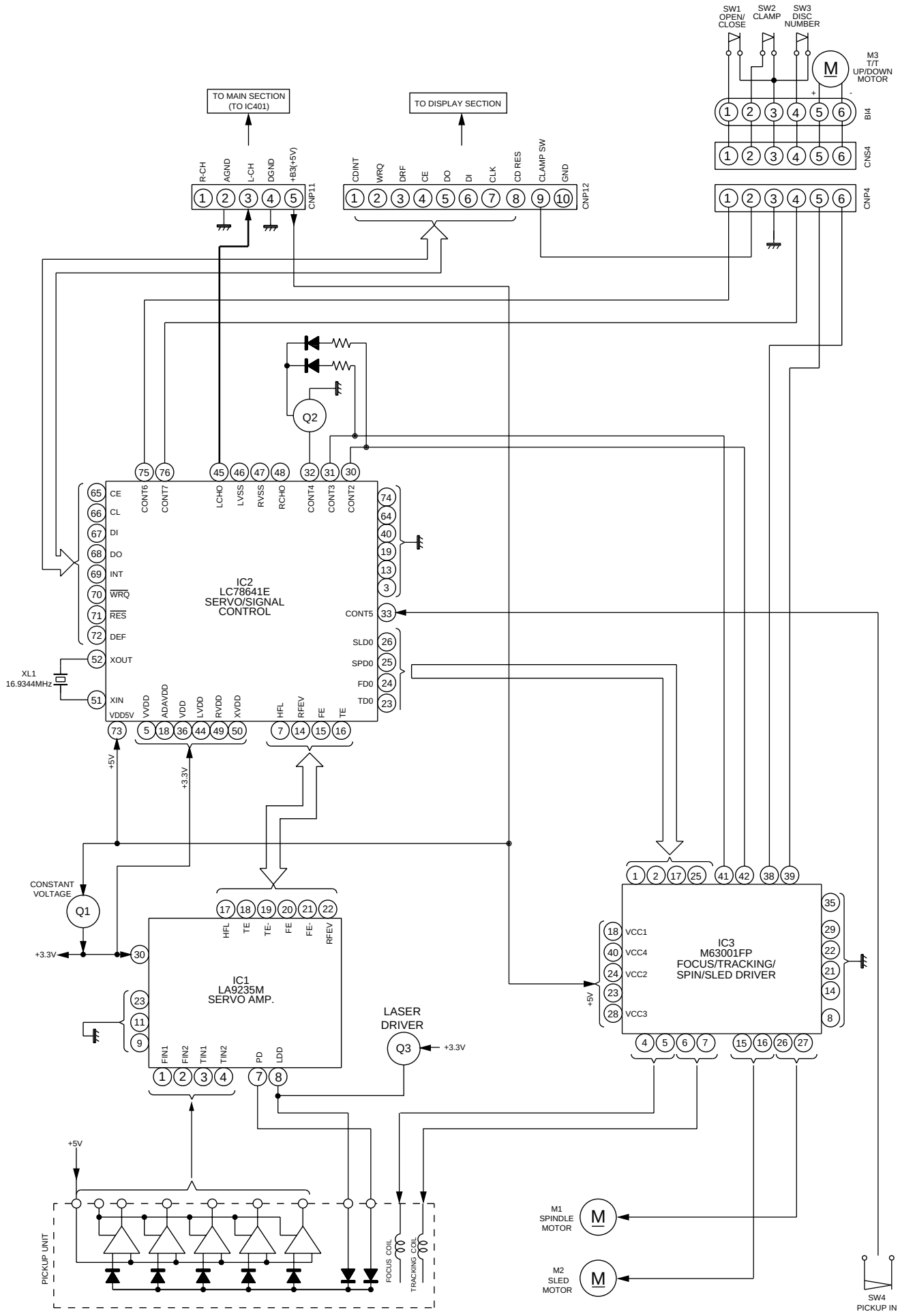


Figure 9 BLOCK DIAGRAM (1/3)

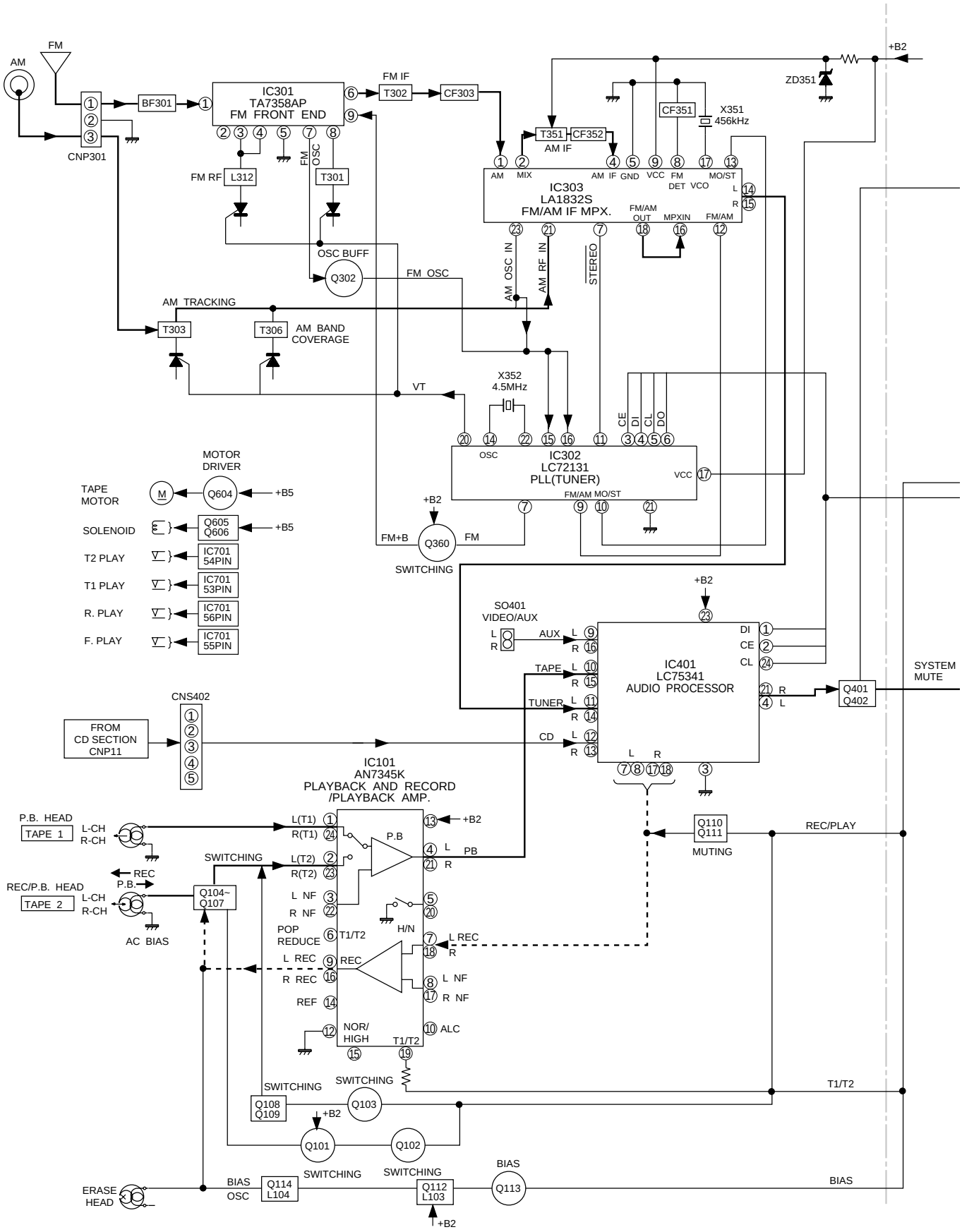


Figure 10 BLOCK DIAGRAM (2/3)

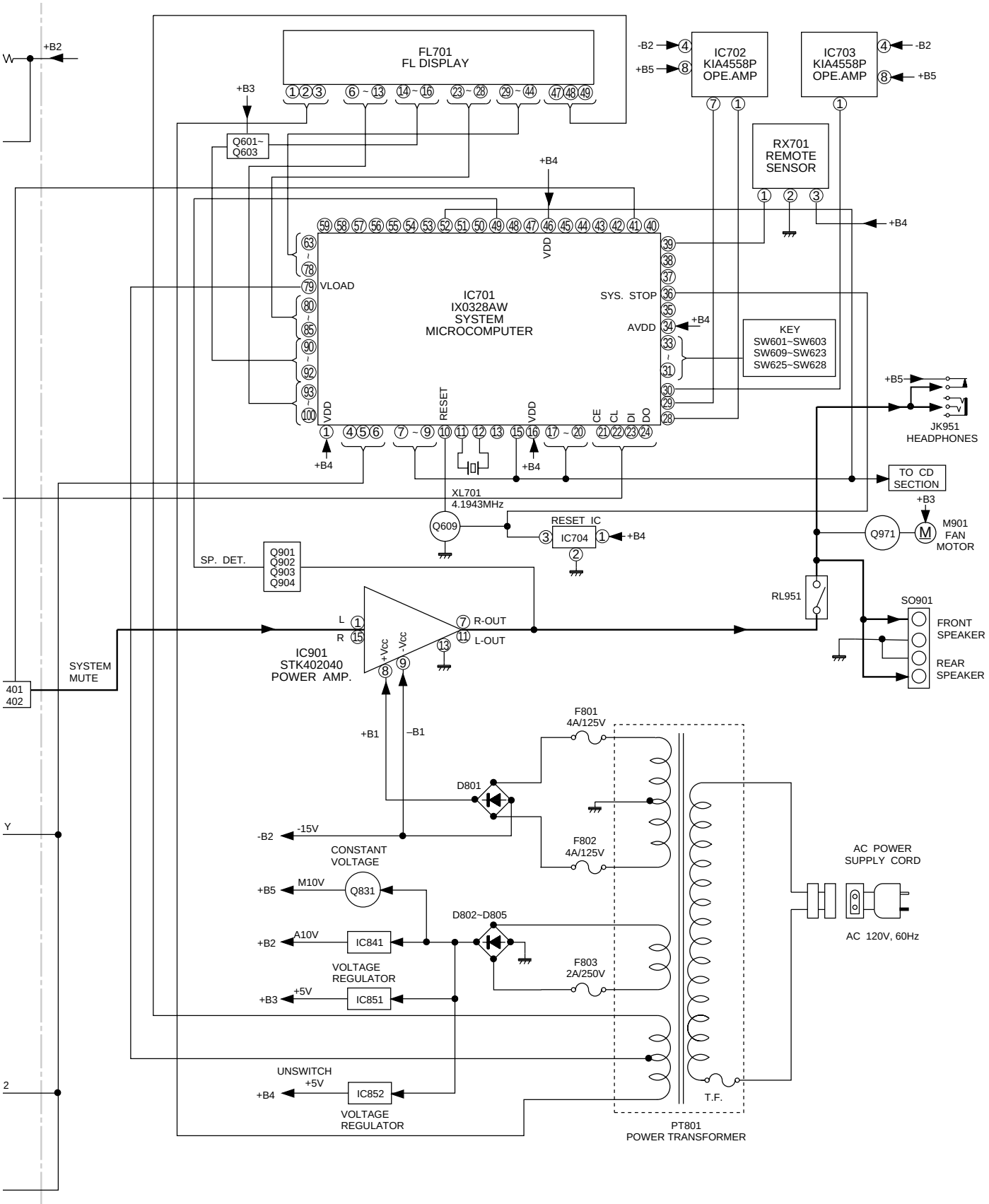
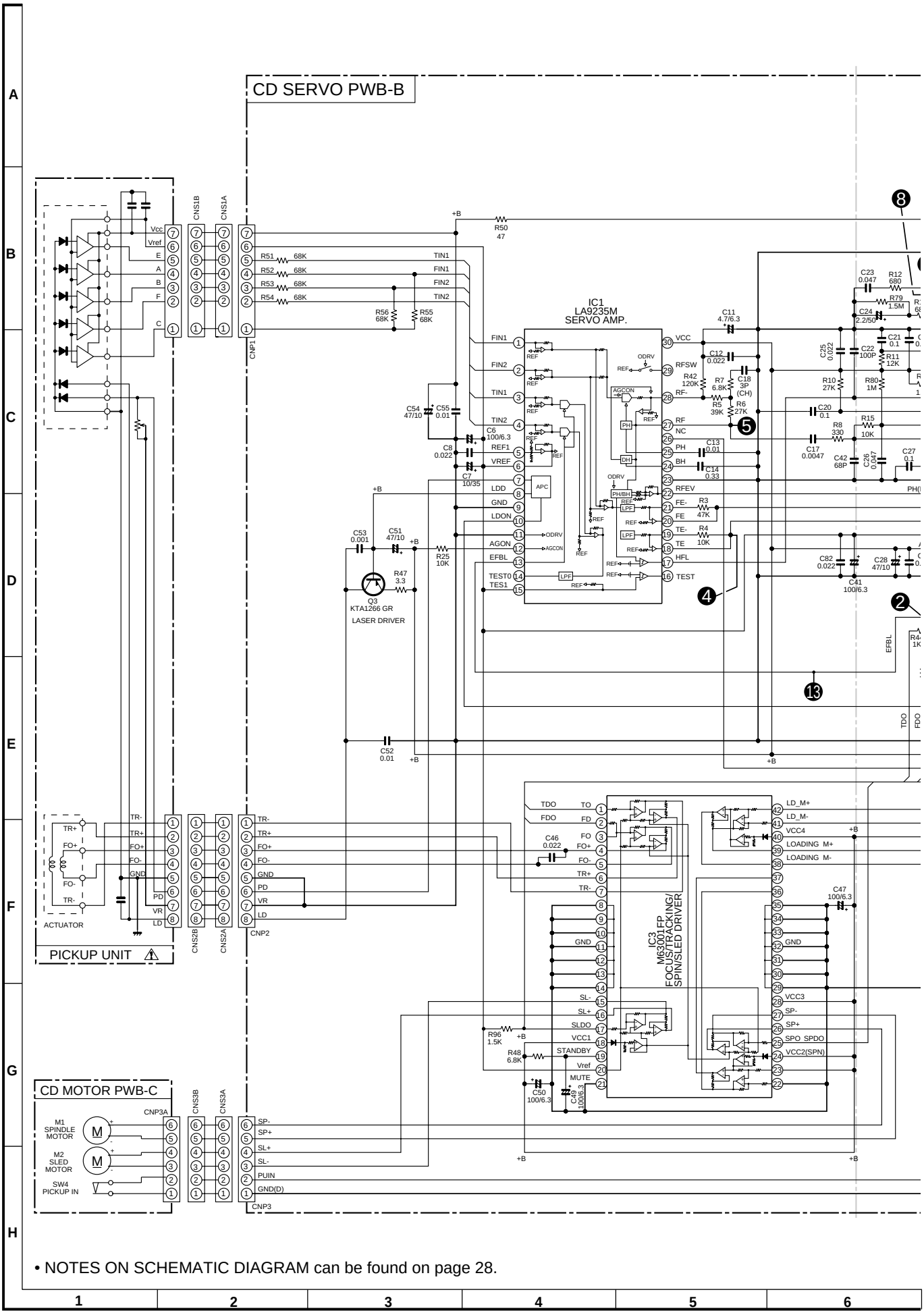
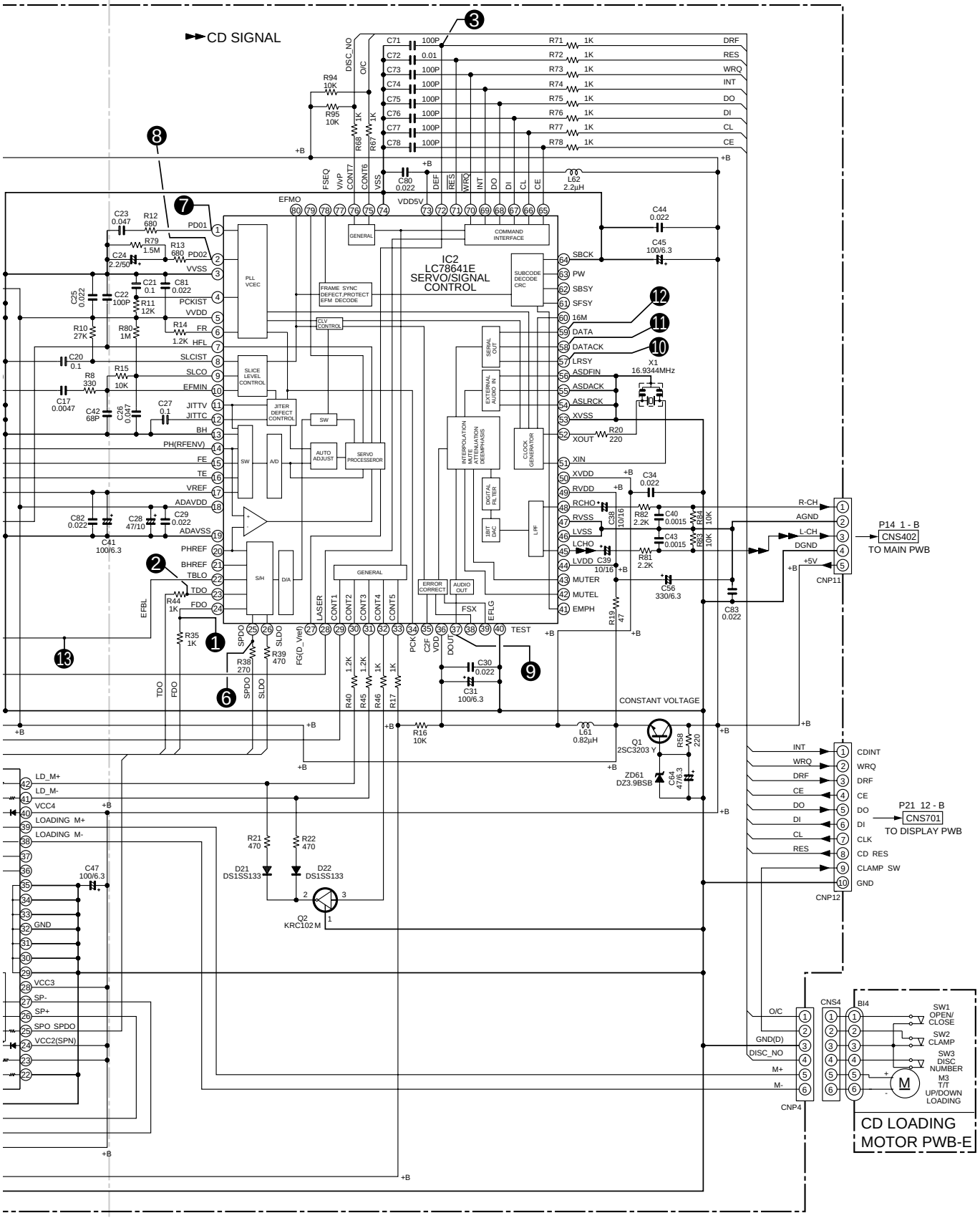


Figure 11 BLOCK DIAGRAM (3/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 28.

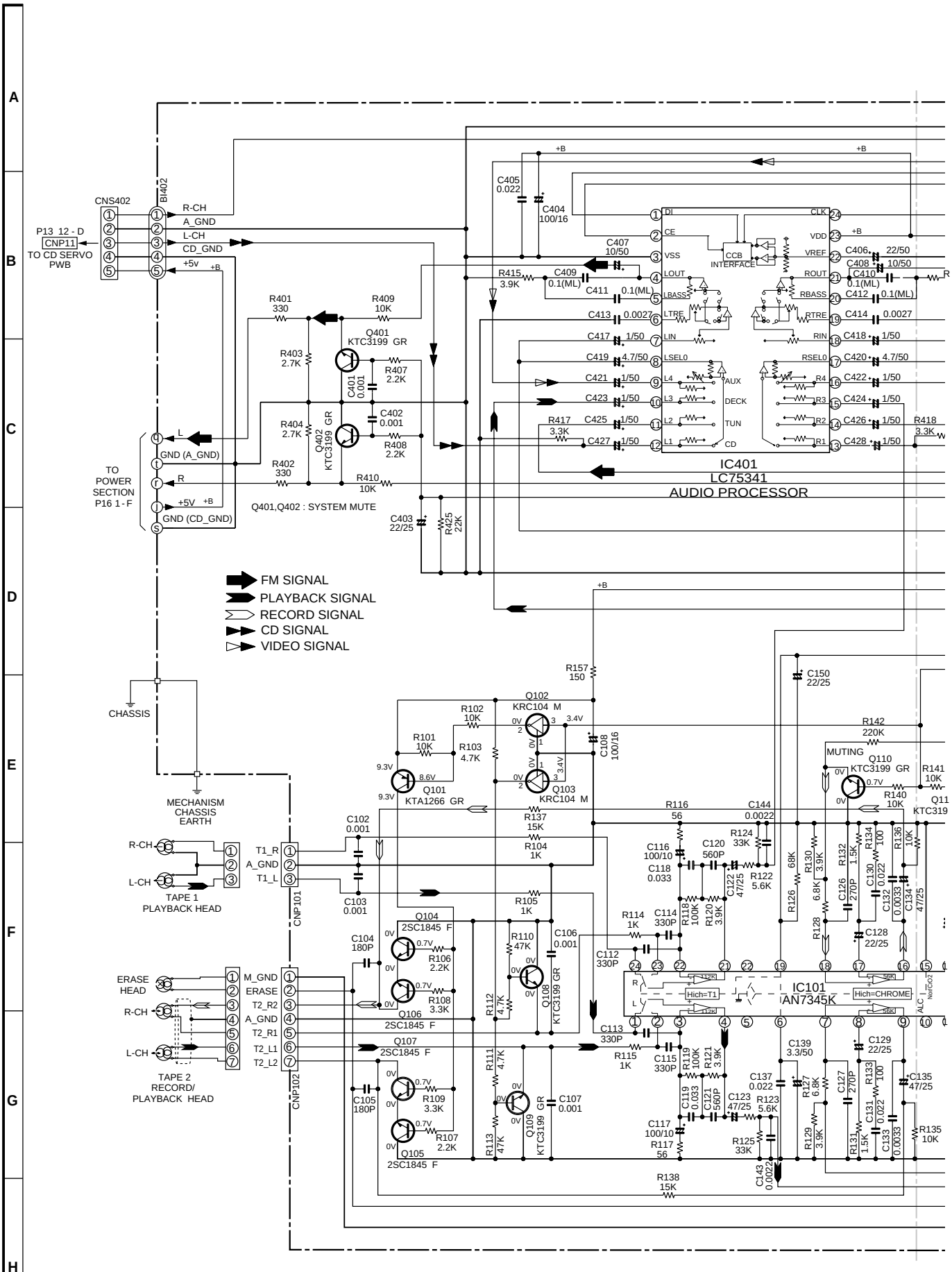
Figure 12 SCHEMATIC DIAGRAM (1/10)



• The numbers ❶ to ⓭ are waveform numbers shown in page 29.

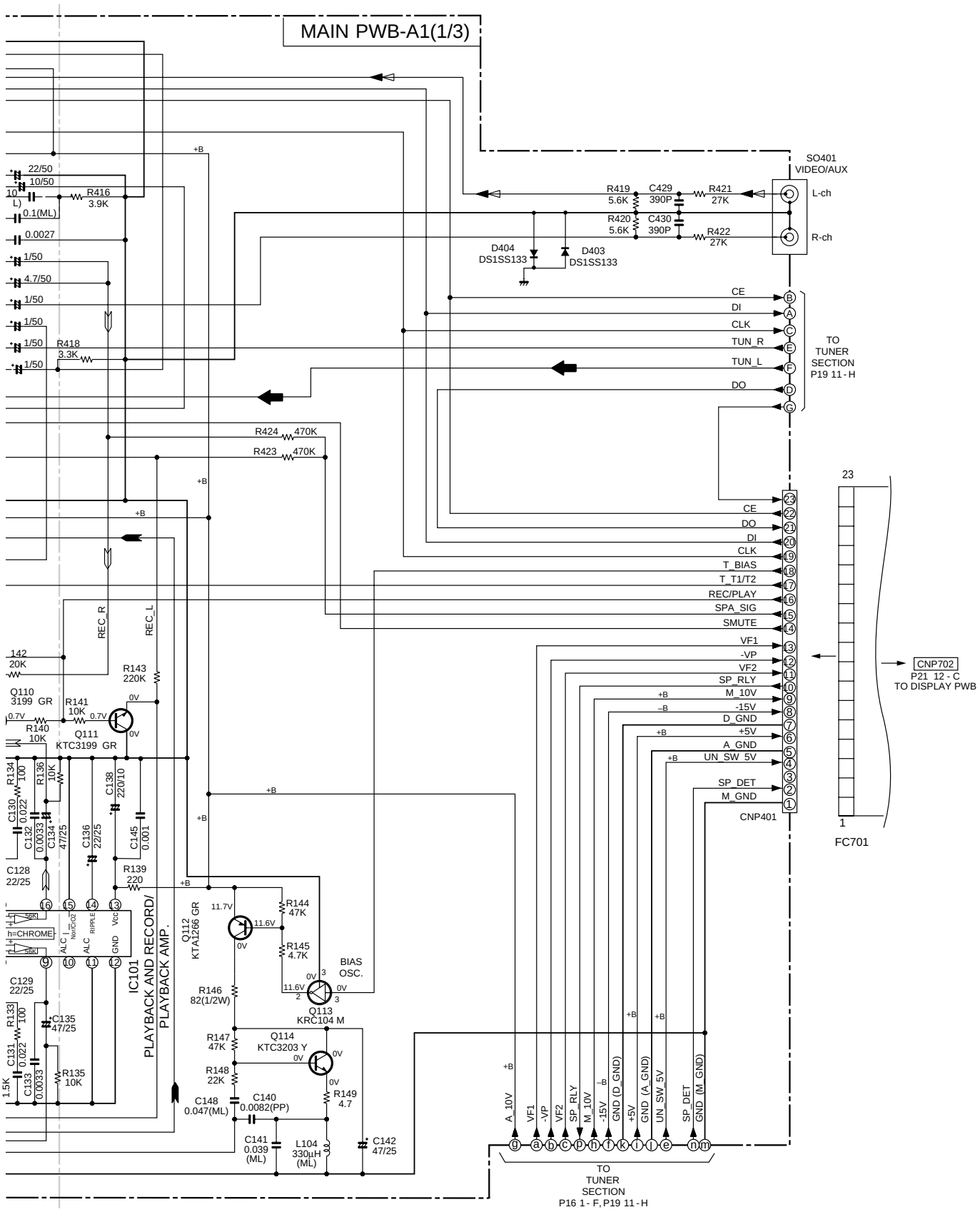
7	8	9	10	11	12

Figure 13 SCHEMATIC DIAGRAM (2/10)



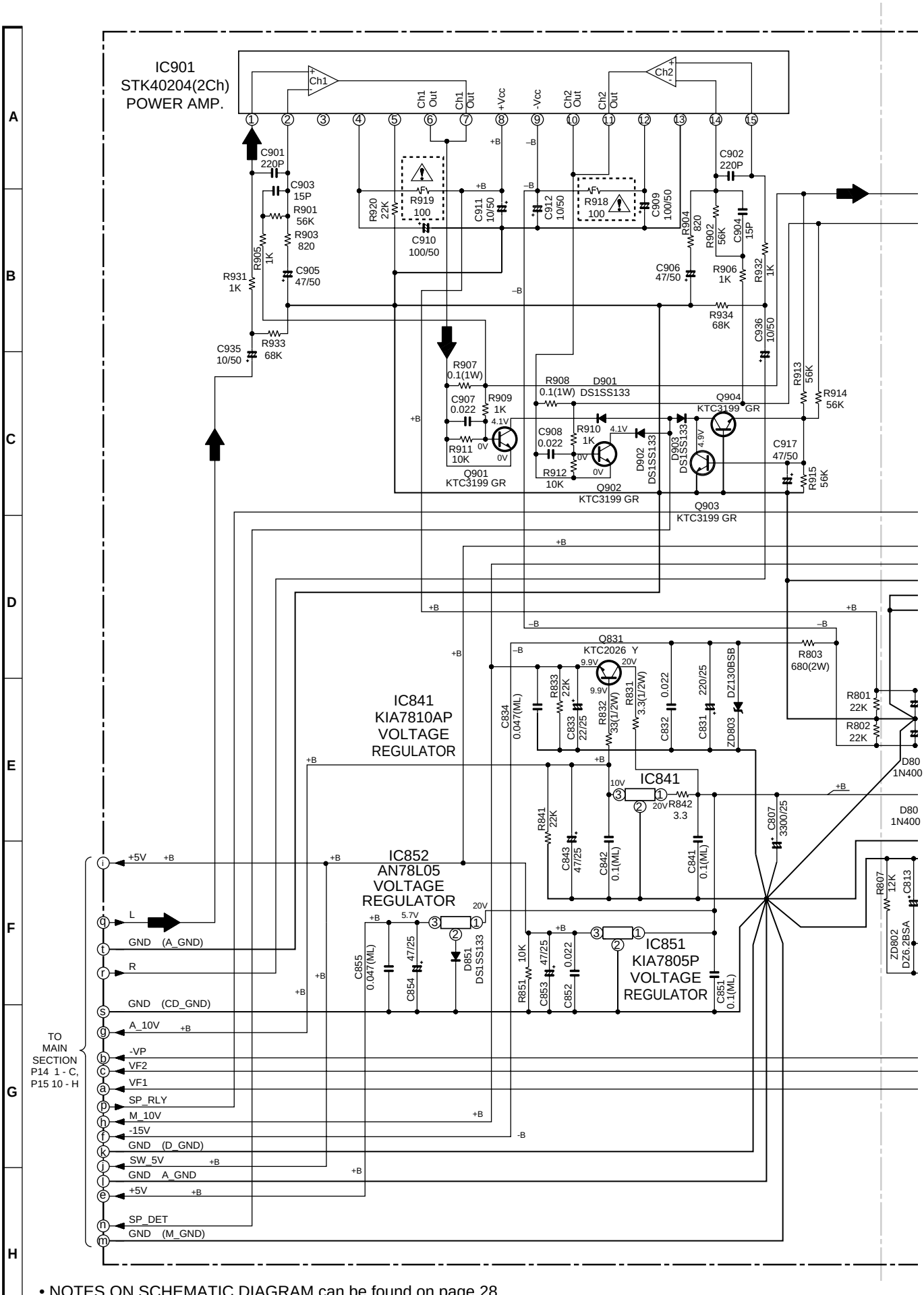
• NOTES ON SCHEMATIC DIAGRAM can be found on page 28.

Figure 14 SCHEMATIC DIAGRAM (3/10)



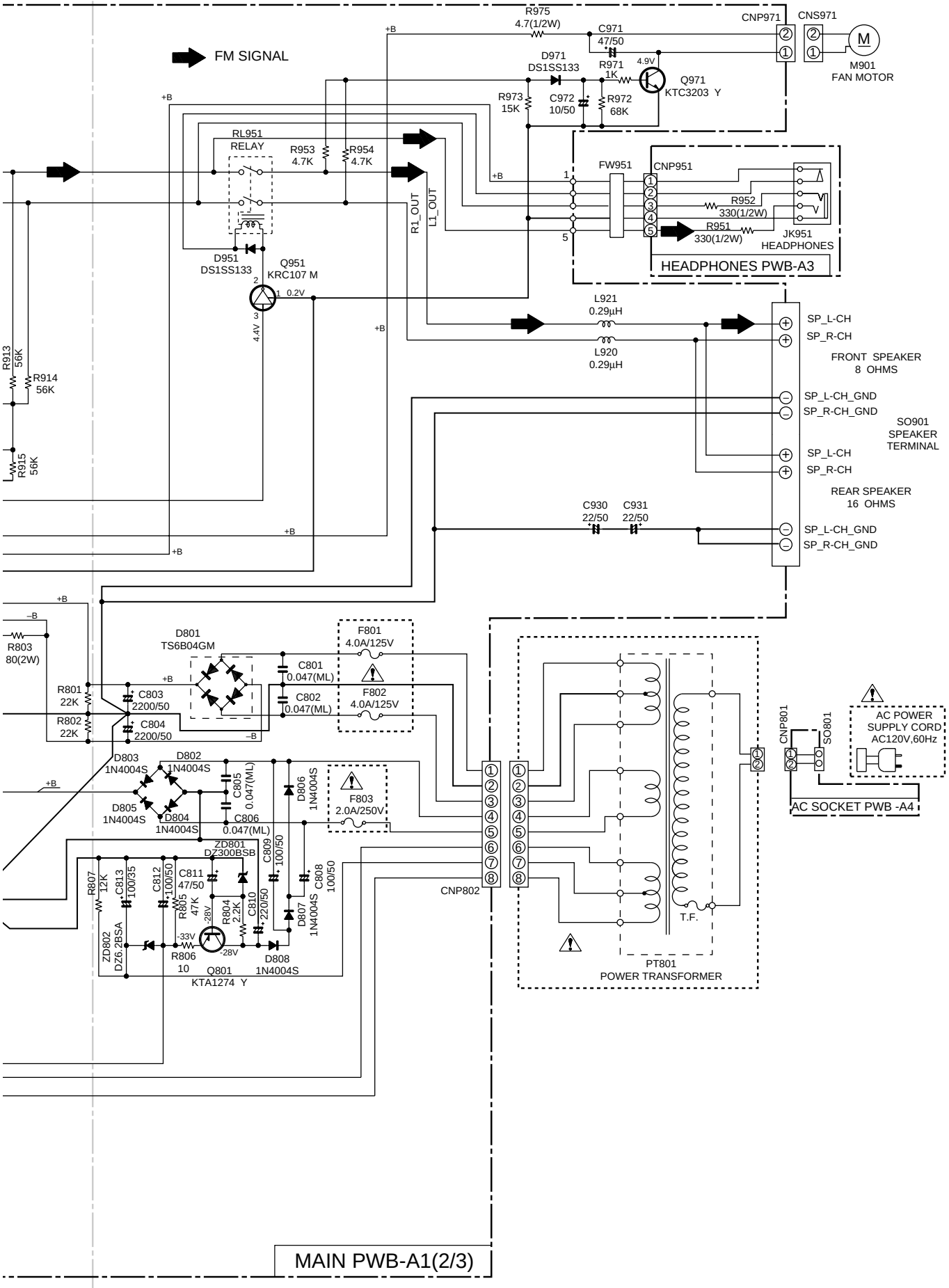
7	8	9	10	11	12

Figure 15 SCHEMATIC DIAGRAM (4/10)



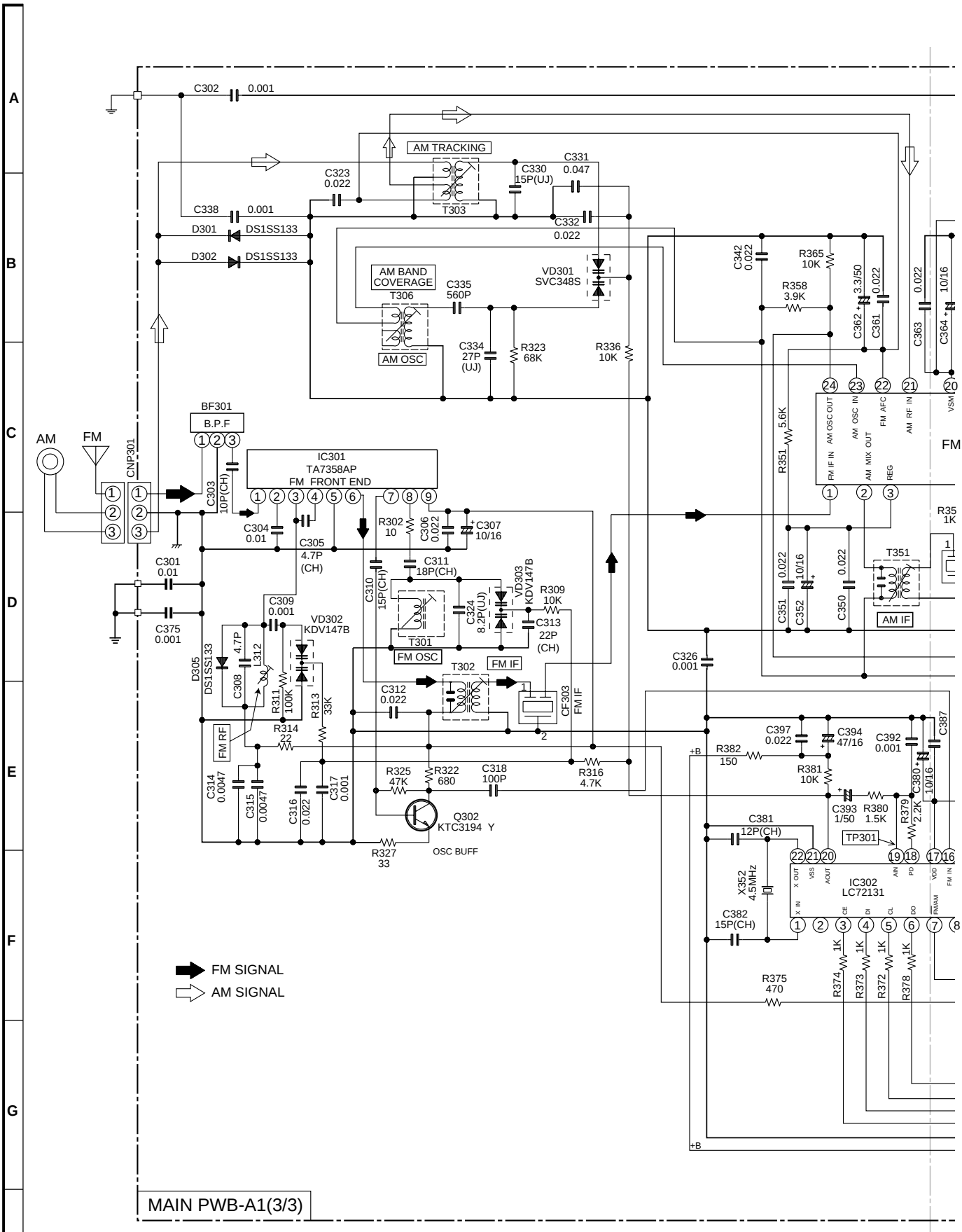
• NOTES ON SCHEMATIC DIAGRAM can be found on page 28.

Figure 16 SCHEMATIC DIAGRAM (5/10)



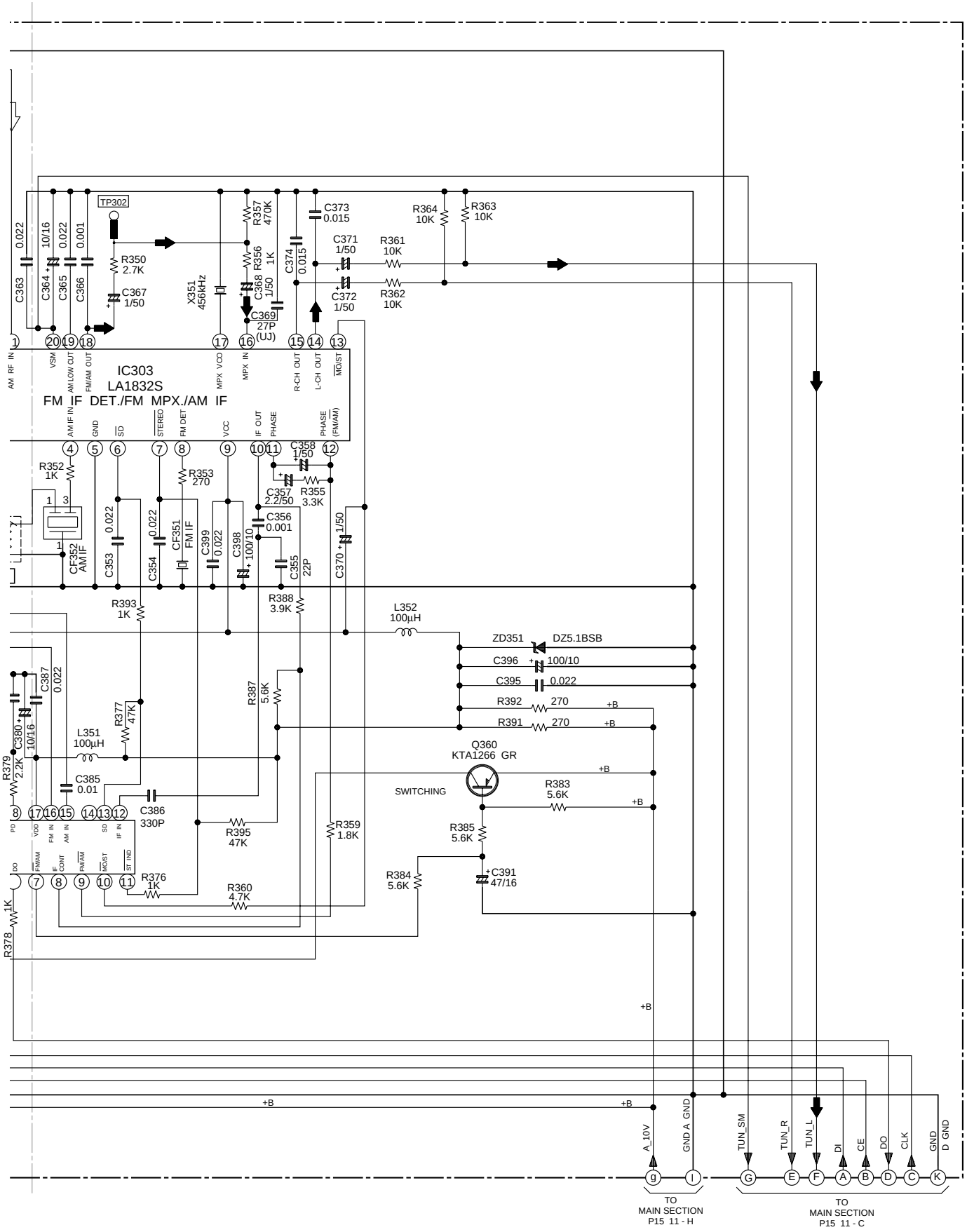
7	8	9	10	11	12

Figure 17 SCHEMATIC DIAGRAM (6/10)



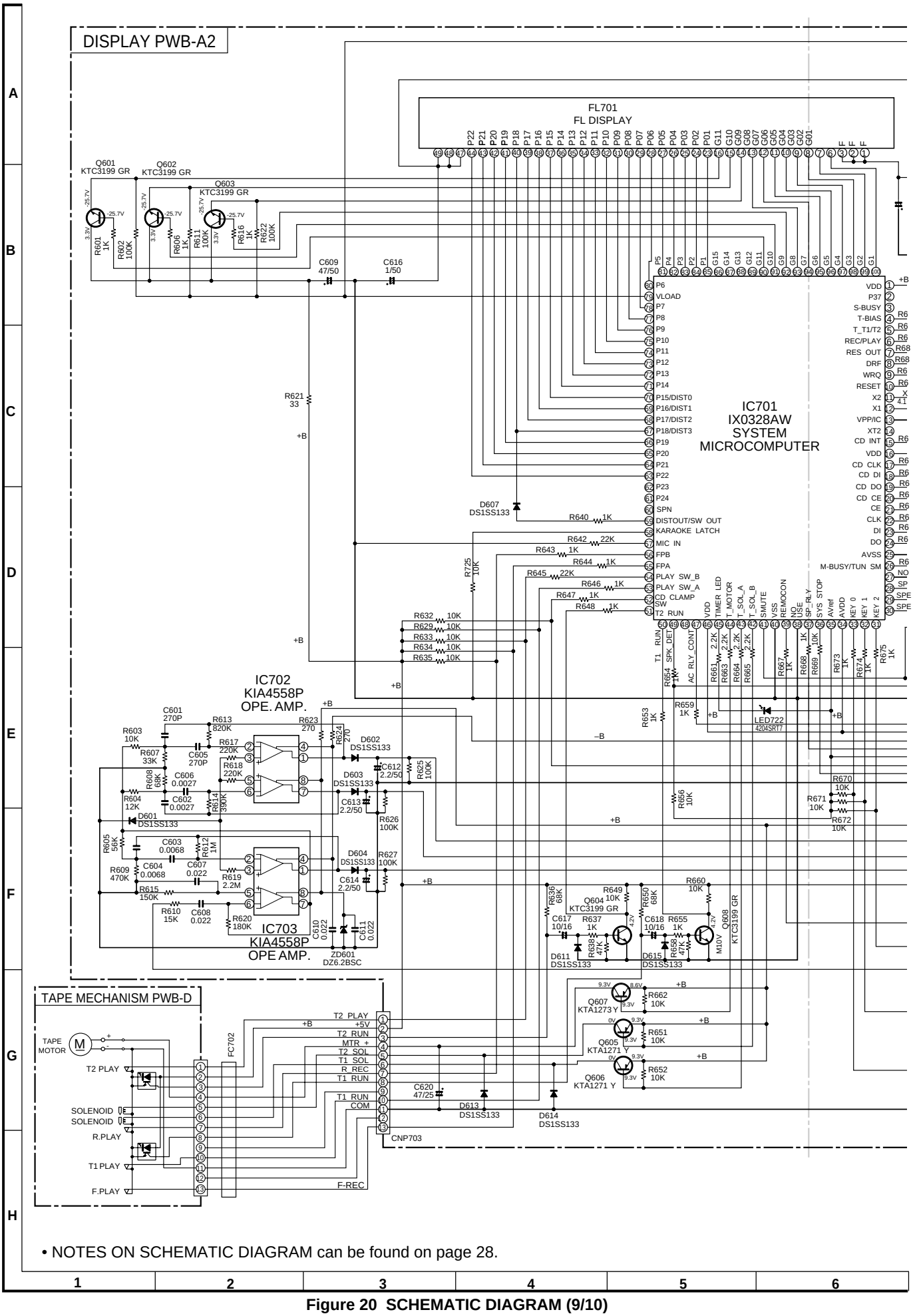
• NOTES ON SCHEMATIC DIAGRAM can be found on page 28.

Figure 18 SCHEMATIC DIAGRAM (7/10)



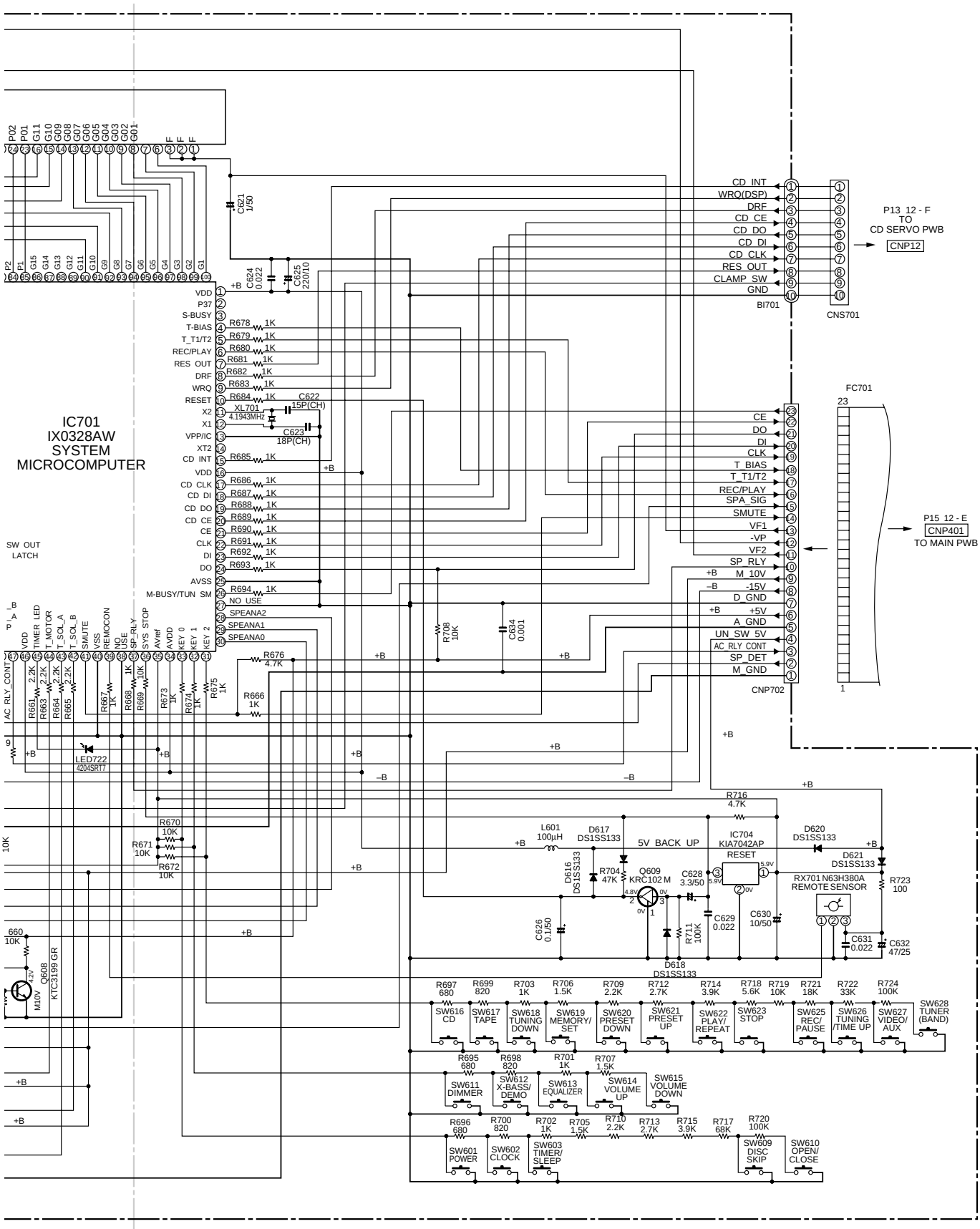
7	8	9	10	11	12

Figure 19 SCHEMATIC DIAGRAM (8/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 28.

Figure 20 SCHEMATIC DIAGRAM (9/10)



7	8	9	10	11	12

Figure 21 SCHEMATIC DIAGRAM (10/10)

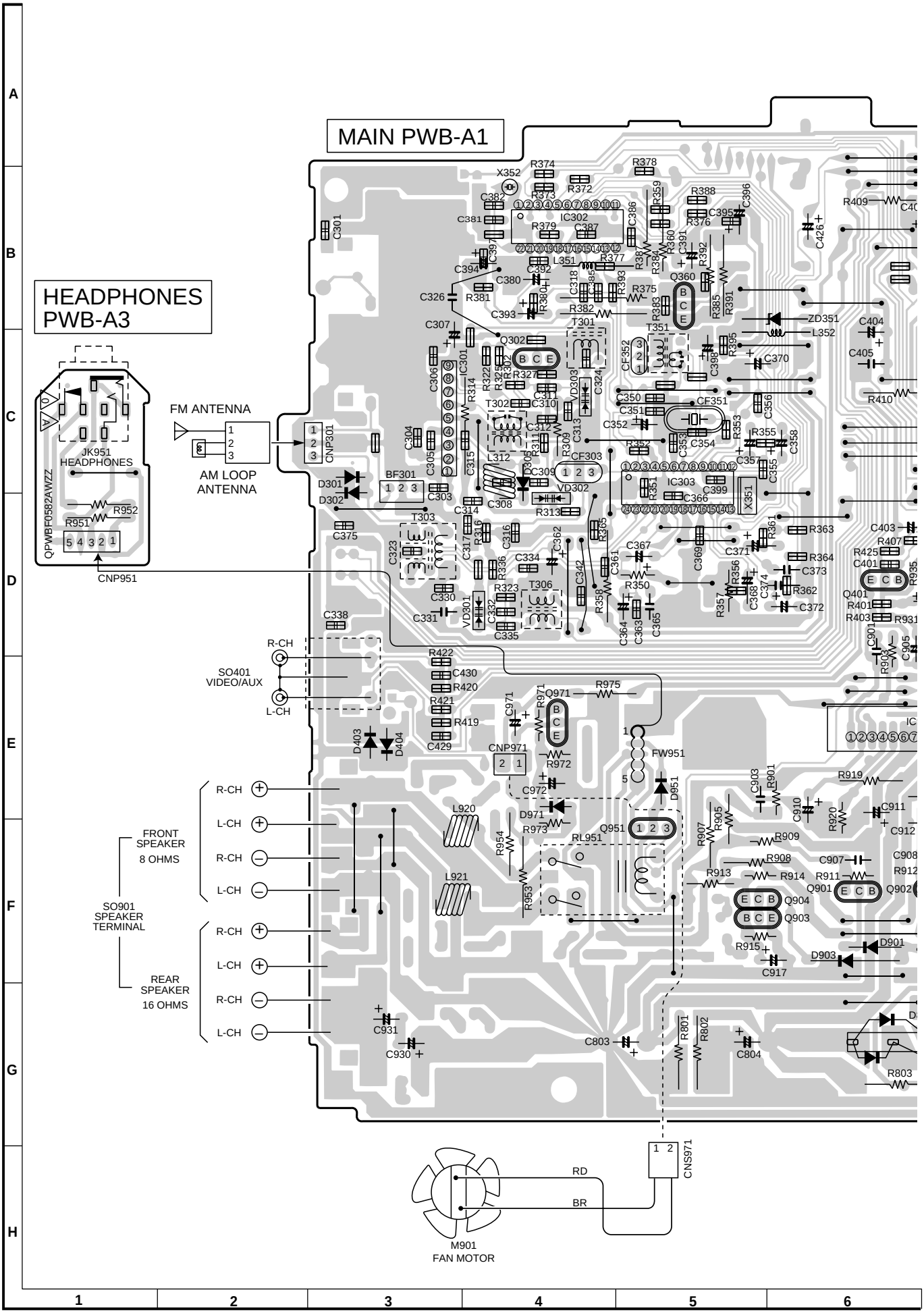
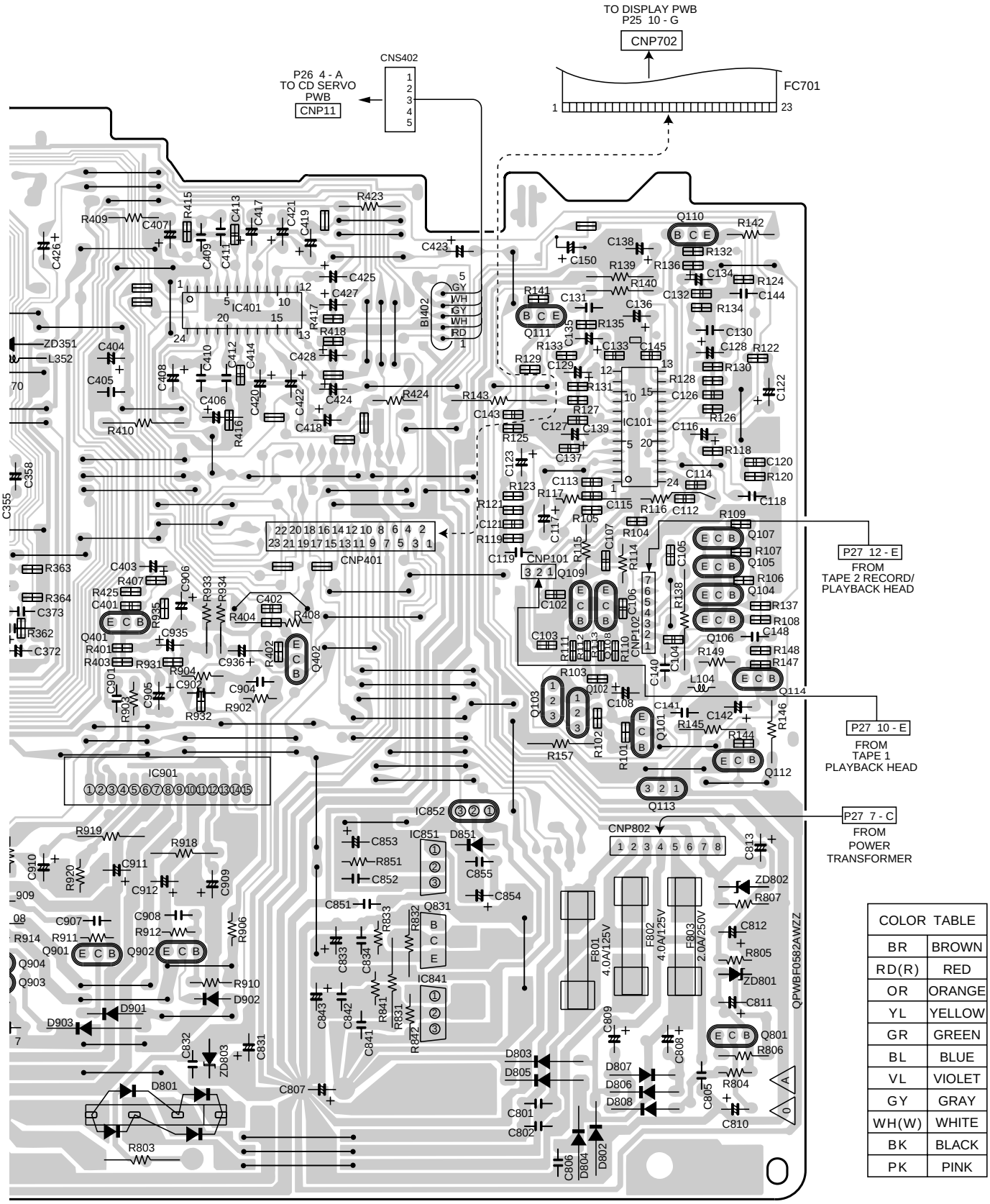


Figure 22 WIRING SIDE OF P.W.BOARD (1/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 23 WIRING SIDE OF P.W.BOARD (2/8)

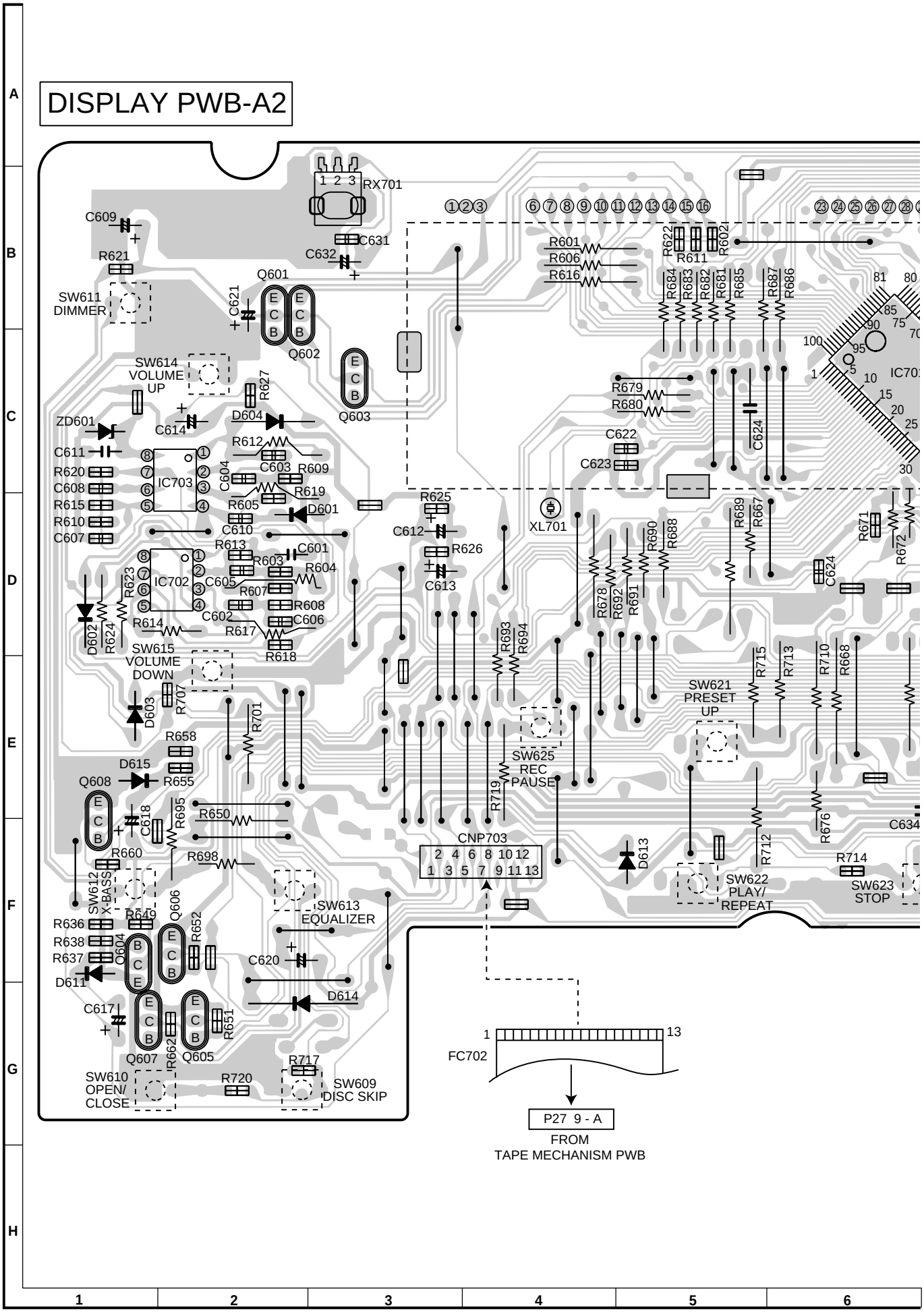
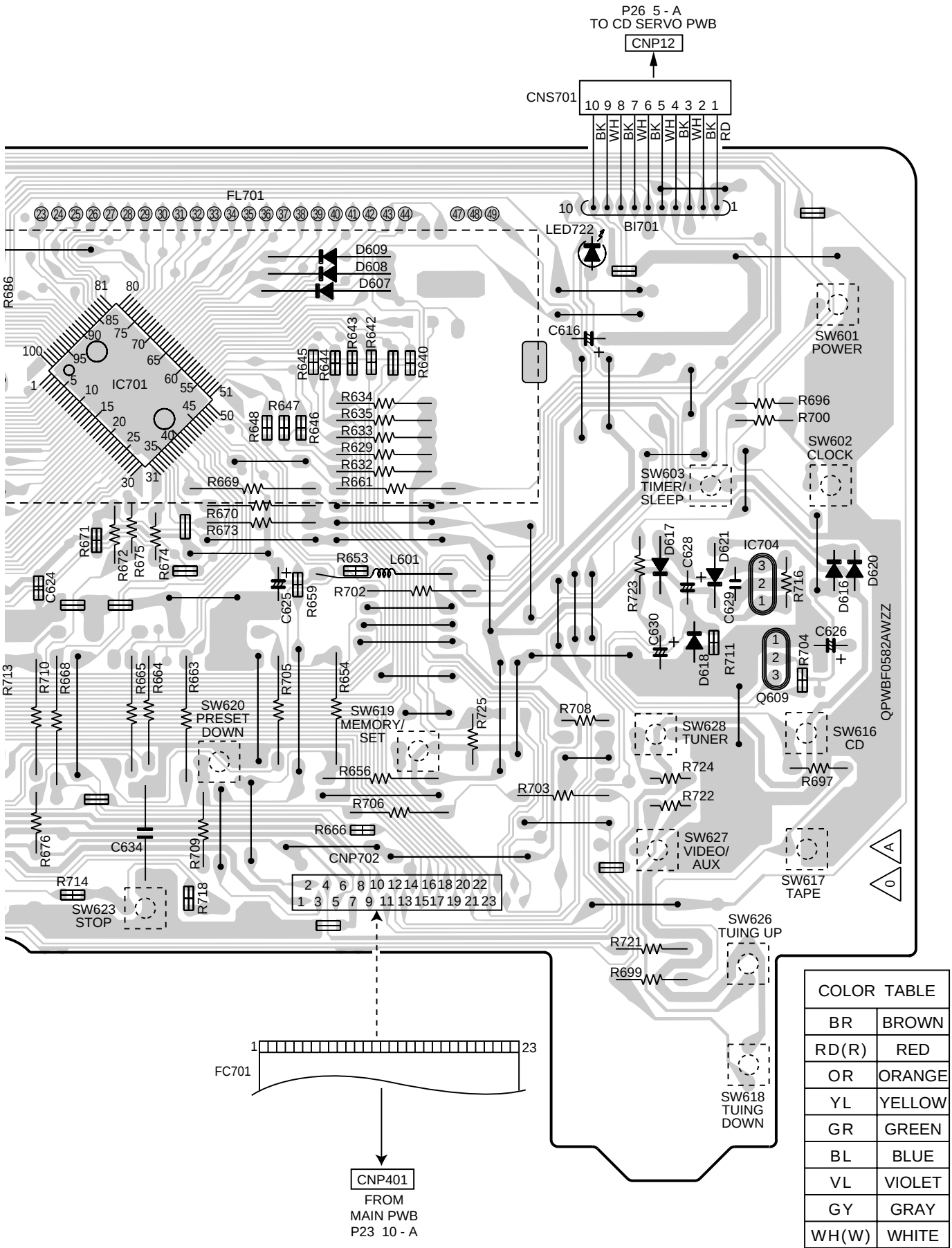


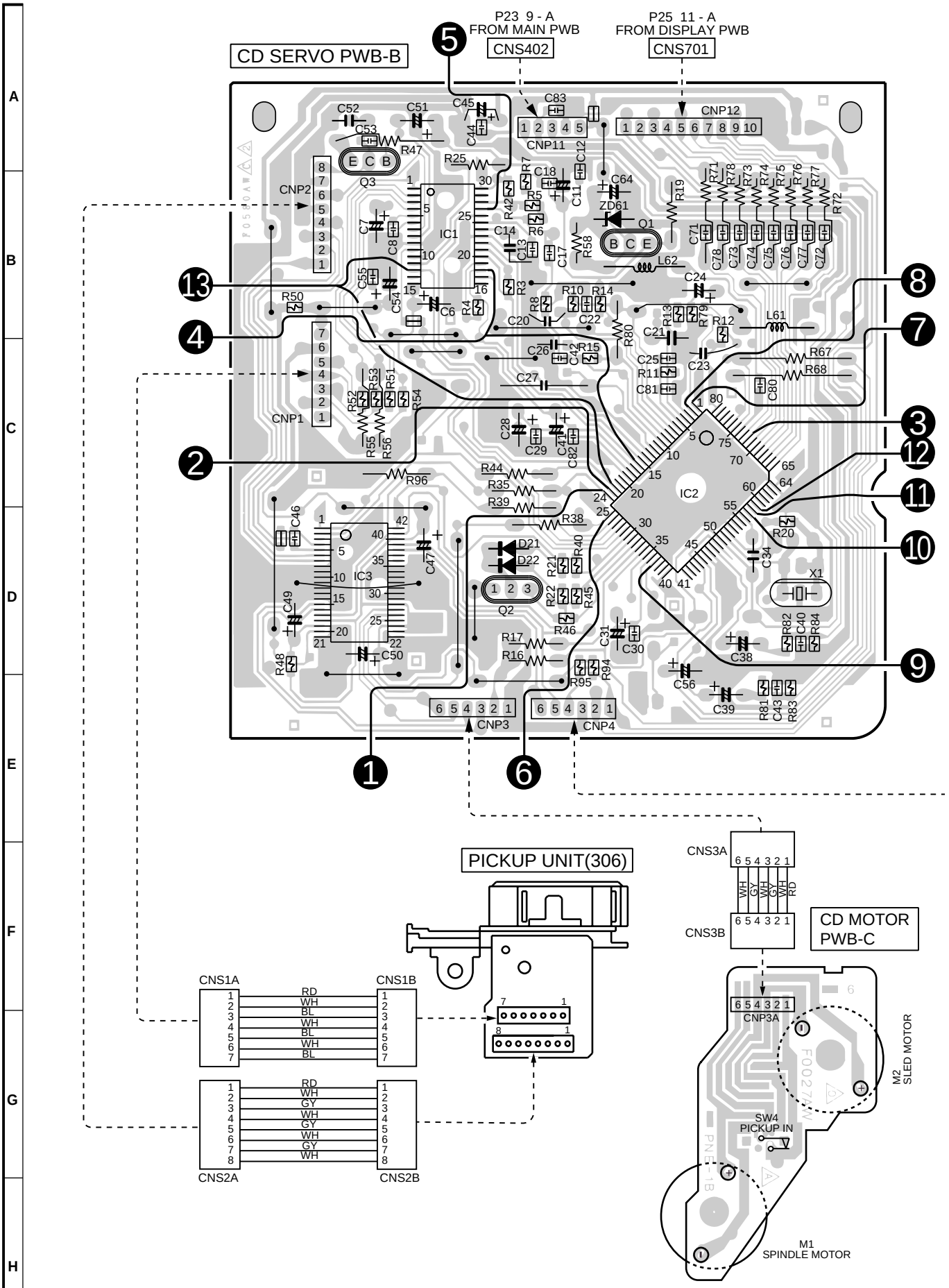
Figure 24 WIRING SIDE OF P.W.BOARD (3/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

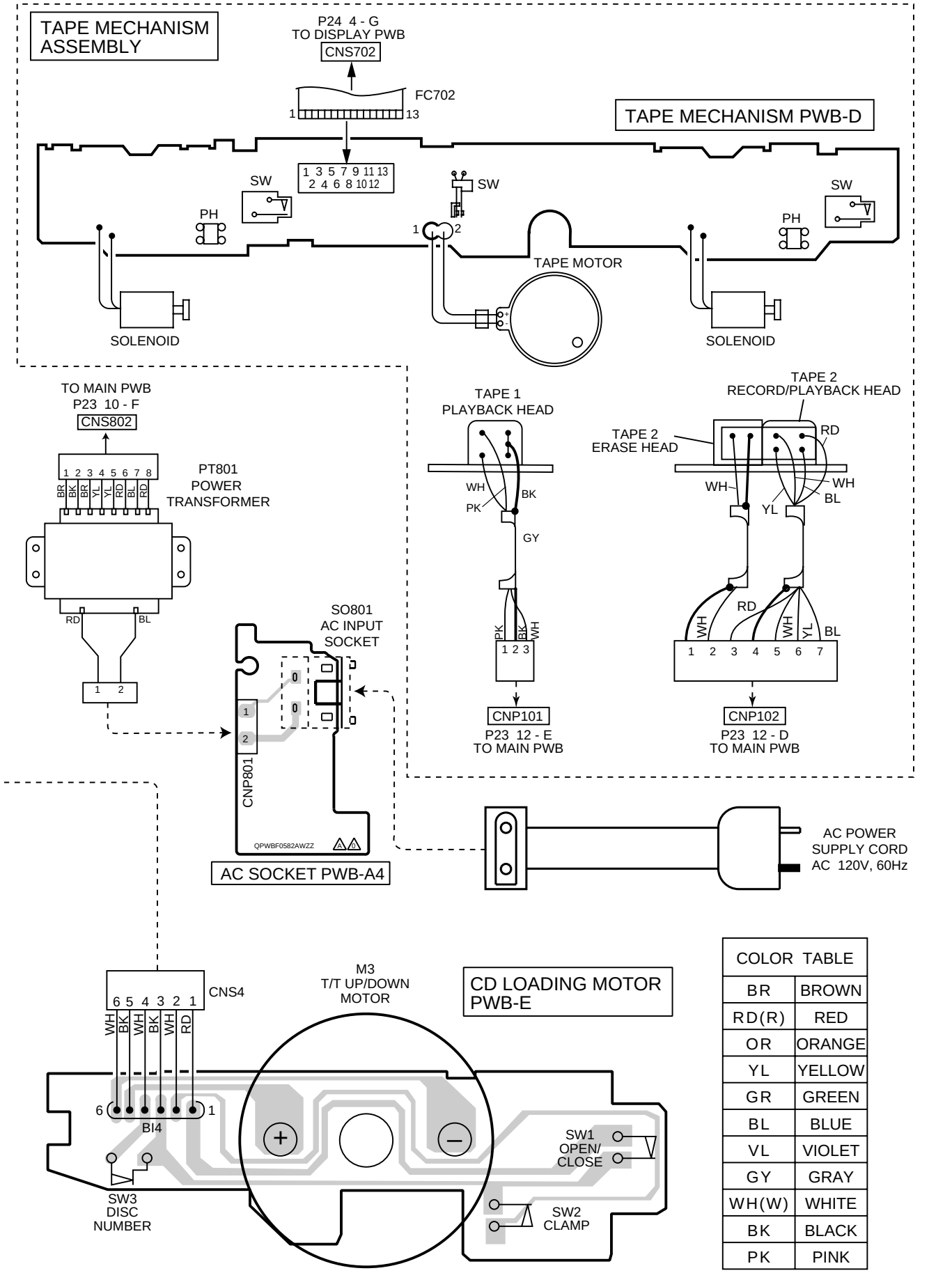
7	8	9	10	11	12

Figure 25 WIRING SIDE OF P.W.BOARD (4/8)



• The numbers ❶ to ⓭ are waveform numbers shown in page 29.

Figure 26 WIRING SIDE OF P.W.BOARD (7/8)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 27 WIRING SIDE OF P.W.BOARD (8/8)

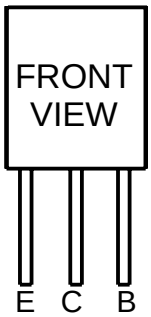
NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
     < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ═ ═ ═ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

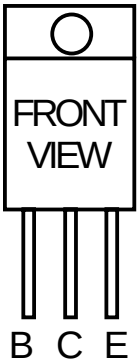
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW601	POWER	ON—OFF
SW602	CLOCK	ON—OFF
SW603	TIMER/SLEEP	ON—OFF
SW609	DISC SKIP	ON—OFF
SW610	OPEN/CLOSE	ON—OFF
SW611	DIMMER	ON—OFF
SW612	X-BASS/DEMO	ON—OFF
SW613	EQUALIZER	ON—OFF
SW614	VOLUME UP	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW615	VOLUME DOWN	ON—OFF
SW616	CD	ON—OFF
SW617	TAPE	ON—OFF
SW618	TUNING /TIME DOWN	ON—OFF
SW619	MEMORY/SET	ON—OFF
SW620	PRESET DOWN	ON—OFF
SW621	PRESET UP	ON—OFF
SW622	PLAY/REPEAT	ON—OFF
SW623	STOP	ON—OFF
SW625	REC/PAUSE	ON—OFF
SW626	TUNING/TIME UP	ON—OFF
SW627	VIDEO/AUX	ON—OFF
SW628	TUNER (BAND)	ON—OFF

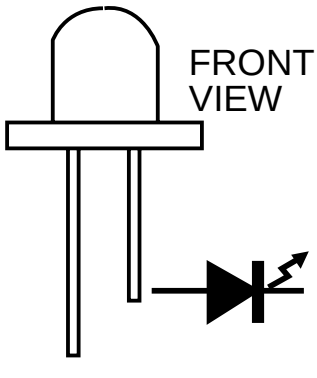
TYPES OF TRANSISTOR AND LED



KTA1266 GR
KRC102 M
KRC104 M
KTA1271 Y
KTA1274 Y
2SC1845 F
KTA1273 Y
KTC3203 Y
KTC3199 GR
KRC107 M
KTC3194 Y



KTC2026

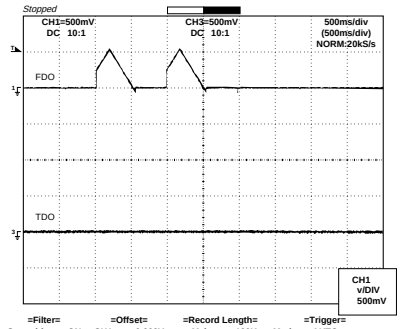


4204SRT7

WAVEFORMS OF CD CIRCUIT

1 IC2 (24)

2 IC2 (23)

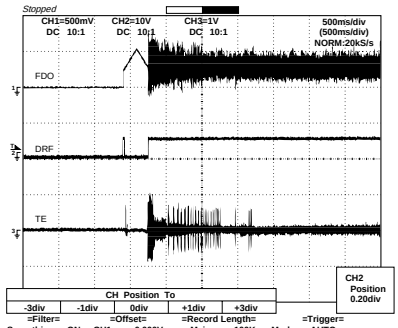


=Filter=	=Offset=	=Record Length=	=Trigger=
Smoothing : ON	CH1 : 0.000V	Main : 100K	Mode : AUTO
BW : FULL	CH2 : 0.0V	Zoom : 2K	Type : EDGE CH1
	CH3 : 0.000V		Delay : 0.0ns
	CH4 : 0.00V		Hold off : 0.2µs

1 IC2 (24)

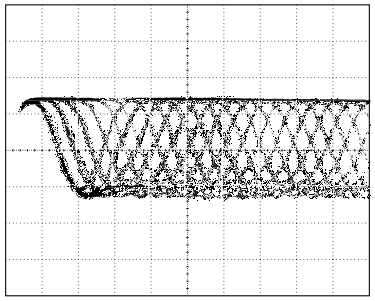
3 IC2 (72)

4 IC1 (18), IC2 (16)



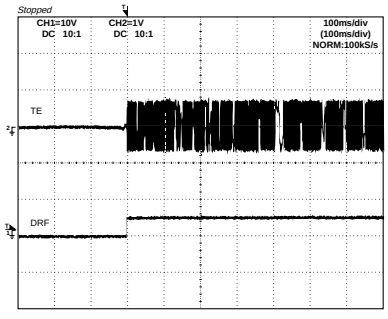
=Filter=	=Offset=	=Record Length=	=Trigger=
Smoothing : ON	CH1 : 0.000V	Main : 100K	Mode : AUTO
BW : FULL	CH2 : 0.0V	Zoom : 2K	Type : EDGE CH1
	CH3 : 0.00V		Delay : 0.0ns
	CH4 : 0.00V		Hold off : 0.2µs

5 IC1 (27)



4 IC1 (18), IC2 (16)

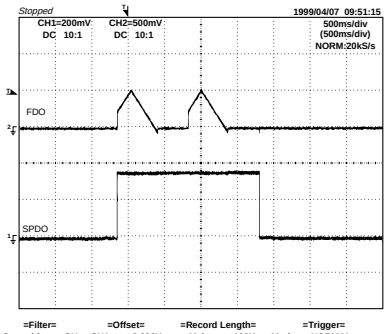
3 IC2 (72)



=Filter=	=Offset=	=Record Length=	=Trigger=
Smoothing : ON	CH1 : 0.0V	Main : 100K	Mode : NORMAL
BW : FULL	CH2 : 0.00V	Zoom : 2K	Type : EDGE CH1
	CH3 : 0.00V		Delay : 2.924ms
	CH4 : 0.00V		Hold off : 0.2µs

1 IC2 (24)

6 IC2 (25)

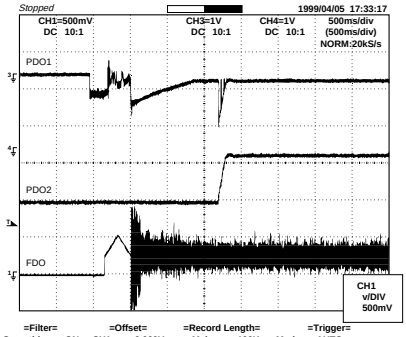


=Filter=	=Offset=	=Record Length=	=Trigger=
Smoothing : ON	CH1 : 0.000V	Main : 100K	Mode : NORMAL
BW : FULL	CH2 : 0.000V	Zoom : 2K	Type : EDGE CH2
	CH3 : 0.00V		Delay : 2.924ms
	CH4 : 0.00V		Hold off : 0.2µs

7 IC2 (1)

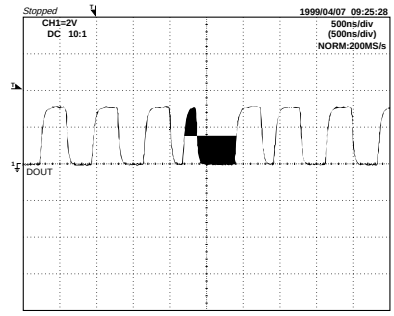
8 IC2 (2)

1 IC2 (24)



=Filter=	=Offset=	=Record Length=	=Trigger=
Smoothing : ON	CH1 : 0.000V	Main : 100K	Mode : AUTO
BW : FULL	CH2 : 0.0V	Zoom : 2K	Type : EDGE CH2
	CH3 : 0.00V		Delay : 0.0ns
	CH4 : 0.00V		Hold off : 0.2µs

9 IC2 (37)

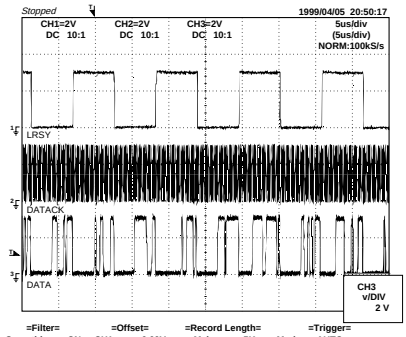


=Filter=	=Offset=	=Record Length=	=Trigger=
Smoothing : ON	CH1 : 0.00V	Main : 1K	Mode : NORMAL
BW : FULL	CH2 : 0.00V	Zoom : 100	Type : EDGE CH1
	CH3 : 0.00V		Delay : 2.887ms
	CH4 : 0.00V		Hold off : 0.2µs

10 IC2 (57)

11 IC2 (58)

12 IC2 (59)

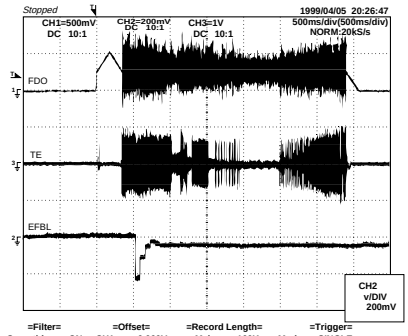


=Filter=	=Offset=	=Record Length=	=Trigger=
Smoothing : ON	CH1 : 0.00V	Main : 5K	Mode : AUTO
BW : FULL	CH2 : 0.00V	Zoom : 100	Type : EDGE CH3
	CH3 : 0.00V		Delay : 0.0ns
	CH4 : 0.00V		Hold off : 0.2µs

1 IC2 (24)

4 IC1 (18), IC2 (16)

13 IC1 (13), IC2 (22)



=Filter=	=Offset=	=Record Length=	=Trigger=
Smoothing : ON	CH1 : 0.000V	Main : 100K	Mode : SINGLE
BW : FULL	CH2 : 0.000V	Zoom : 2k	Type : EDGE CH1
	CH3 : 0.00V		Delay : 0.0ns
	CH4 : 0.00V		Hold off : 0.2µs

VOLTAGE

IC1	
PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.6V
4	1.6V
5	1.6V
6	1.6V
7	0V
8	2.6V
9	0V
10	0V
11	0V
12	3.3V
13	1.6V
14	1.6V
15	1.6V
16	0V
17	0V
18	1.6V
19	1.6V
20	1.6V
21	1.6V
22	1.6V
23	0V
24	1.6V
25	0V
26	0V
27	0V
28	1.6V
29	1.6V
30	3.3V

IC3	
PIN NO.	VOLTAGE
1	1.6V
2	1.6V
3	1.8V
4	2.1V
5	2.1V
6	2.1V
7	2.1V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	2.1V
16	2.1V
17	1.6V
18	4.9V
19	3.5V
20	1.6V
21	0V
22	0V
23	4.9V
24	4.9V
25	1.6V
26	2.1V
27	2.1V
28	1.9V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	4.2V
37	0V
38	2.1V
39	2.1V
40	4.9V
41	2.1V
42	2.1V

IC2	
PIN NO.	VOLTAGE
1	0.7V
2	0V
3	0V
4	0V
5	3.3V
6	2.4V
7	0V
8	0V
9	1.6V
10	0V
11	4.7V
12	1.7V
13	0V
14	1.6V
15	1.6V
16	1.6V
17	1.6V
18	3.3V
19	0V
20	1.6V
21	1.6V
22	1.6V
23	1.6V
24	1.6V
25	1.6V
26	1.6V
27	1.6V
28	0V
29	0V
30	2.1V
31	2.1V
32	0V
33	3.3V
34	3.5V
35	3.3V
36	3.3V
37	3.3V
38	1.6V
39	1.6V
40	0V
41	0V
42	3.3V
43	3.3V
44	3.0V
45	1.5V
46	0V
47	0V
48	1.5V
49	3.0V
50	3.3V
51	1.8V
52	3.0V
53	0V
54	0V
55	0V
56	0V
57	1.7V
58	3.3V
59	0V
60	3.0V
61	1.6V
62	0V
63	2.4V
64	0V
65	0V
66	0V
67	0V
68	4.8V
69	4.9V
70	4.9V
71	4.6V
72	0V
73	4.9V
74	0V
75	0V
76	0V
77	3.2V
78	0V
79	0V
80	3.4V

IC101	
PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	0.5V (0.5V)
4	1.9V (1.9V)
5	0V (0V)
6	0V (0V)
7	0V (0V)
8	0.6V (0.6V)
9	3.3V (3.3V)
10	3.3V (3.3V)
11	0V (0V)
12	0V (0V)
13	6.7V (6.7V)
14	4.0V (4.0V)
15	0V (0V)
16	3.3V (3.3V)
17	0.6V (0.6V)
18	0V (0V)
19	0V (0V)
20	0V (0V)
21	1.9V (1.9V)
22	0.5V (0.5V)
23	0V (0V)
24	0V (0V)

IC301	
PIN NO.	VOLTAGE
1	0.8V (0V)
2	1.5V (0V)
3	3.6V (0.4V)
4	1.5V (0V)
5	0V (0V)
6	3.6V (0.4V)
7	2.8V (0.2V)
8	3.5V (0.3V)
9	3.6V (0.3V)

IC302	
PIN NO.	VOLTAGE
1	2.4V (2.4V)
2	0V (0V)
3	0V (0V)
4	0V (0V)
5	4.6V (4.7V)
6	4.8V (4.9V)
7	0.1V (9.9V)
8	4.2V (0V)
9	3.3V (0V)
10	3.4V (0V)
11	4.6V (4.9V)
12	2.2V (0V)
13	4.6V (4.9V)
14	0V (0V)
15	0V (2.4V)
16	2.3V (0V)
17	4.6V (4.9V)
18	0.8V (4.9V)
19	0.8V (4.9V)
20	1.1V (0V)
21	0V (0V)
22	2.5V (3.0V)

IC303	
PIN NO.	VOLTAGE
1	2.1V (2.4V)
2	4.5V (4.8V)
3	2.1V (2.1V)
4	2.1V (2.1V)
5	0V (0V)
6	4.6V (4.6V)
7	4.6V (4.6V)
8	2.4V (3.2V)
9	4.5V (4.8V)
10	3.9V (0V)
11	3.3V (1.8V)
12	3.3V (1.1V)
13	3.5V (2.0V)
14	1.2V (1.2V)
15	1.2V (1.2V)
16	2.0V (2.0V)
17	2.7V (0V)
18	2.1V (0.9V)
19	0V (1.9V)
20	0.3V (0.9V)
21	2.6V (2.0V)
22	3.5V (3.0V)

IC401	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	5.0V
5	5.0V
6	5.0V
7	5.0V
8	5.0V
9	5.0V
10	5.0V
11	5.0V
12	5.0V
13	5.0V
14	5.0V
15	5.0V
16	5.0V
17	5.0V
18	5.0V
19	5.0V
20	5.0V
21	5.0V
22	5.0V
23	10.0V
24	0V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	5.0V	51	4.29V
2	0V	52	4.29V
3	5.0V	53	4.29V
4	0V	54	4.29V
5	5.0V	55	4.29V
6	5.0V	56	4.29V
7	5.0V	57	0V
8	1.2V	58	0V
9	0.87V	59	–27.8V
10	4.84V	60	–27.8V
11	2.38V	61	0V
12	2.06V	62	0V
13	0V	63	–27.7V
14	0V	64	–27.7V
15	1.4V	65	–27.7V
16	4.89V	66	–27.7V
17	4.8V	67	–27.7V
18	0V	68	–27.7V
19	2.3V	69	–20.4V
20	0V	70	–22.1V
21	0V	71	–25.9V
22	0V	72	–27.7V
23	0V	73	–24.1V
24	4.44V	74	–24.4V
25	0.3V	75	–25.9V
26	0V	76	–22.2V
27	0V	77	–22.2V
28	0V	78	–22.3V
29	0V	79	–27.8V
30	0V	80	–27.7V
31	5.1V	81	–27.7V
32	5.1V	82	27.7V
33	5.1V	83	–20.3V
34	4.9V	84	–24.0V
35	5.0V	85	–20.3V
36	4.9V	86	2.38V
37	4.9V	87	2.58V
38	0V	88	–25.8V
39	5.0V	89	–25.8V
40	0V	90	–25.7V
41	1.7V	91	–25.7V
42	8.0V	92	–25.7V
43	7.9V	93	–25.7V
44	8.0V	94	–25.7V
45	3.8V	95	–25.7V
46	4.89V	96	–25.7V
47	4.89V	97	–25.7V
48	4.89V	98	–25.7V
49	4.29V	99	–25.7V
50	4.29V	100	–25.7V

IC704	
PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V

IC702	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	–11.0V
5	0V
6	0V
7	0V
8	5.58V

IC703	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	–11.0V
5	0V
6	0V
7	0V
8	5.58V

IC901	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	34.4V
5	–32.9V
6	0V
7	0V
8	35.4V
9	–35.1V
10	0V
11	0V
12	–34.0V
13	0V
14	0V
15	0V

IC852	
PIN NO.	VOLTAGE
1	19.4V
2	0V
3	5.76V

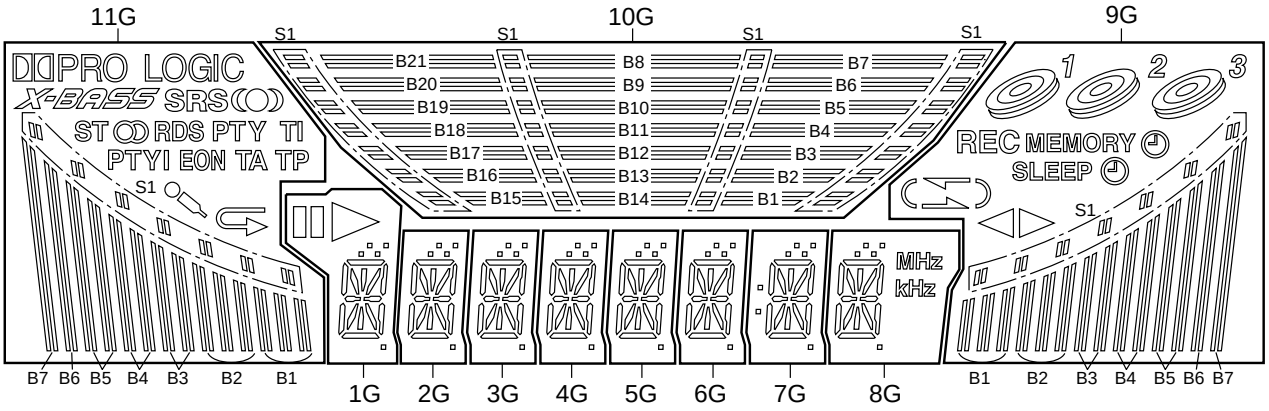
IC851	
PIN NO.	VOLTAGE
1	19.4V
2	0V
3	5V

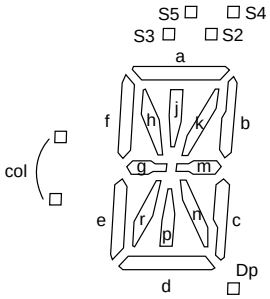
IC841	
PIN NO.	VOLTAGE
1	19.41V
2	0V
3	10V

Q831	
PIN NO.	VOLTAGE
1	10.0V
2	19.41V
3	10.0V

FL DISPLAY

FL701 VVKBJ11LM02T1: FL Display





	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	S1	S1	S1	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp
P2	B1	B1	B1	d	d	d	d	d	d	d	d
P3	B2	B2	B2	c	c	c	c	c	c	c	c
P4	B3	B3	B3	n	n	n	n	n	n	n	n
P5	B4	B4	B4	p	p	p	p	p	p	p	p
P6	B5	B5	B5	r	r	r	r	r	r	r	r
P7	B6	B6	B6	e	e	e	e	e	e	e	e
P8	B7	B7	B7	m	m	m	m	m	m	m	m
P9	PRO LOGIC	B8	1	g	g	g	g	g	g	g	g
P10	X-BASS	B9	2		col						
P11	SRS	B10	3	b	b	b	b	b	b	b	b
P12	ST	B11	REC	k	k	k	k	k	k	k	k
P13		B12	MEMORY	j	j	j	j	j	j	j	j
P14	RDS	B13		h	h	h	h	h	h	h	h
P15	PTY	B14		f	f	f	f	f	f	f	f
P16	TI	B15	SLEEP	a	a	a	a	a	a	a	a
P17	TP	B16		S2	S2	S2	S2	S2	S2	S2	S2
P18	TA	B17		S3	S3	S3	S3	S3	S3	S3	S3
P19	PTYI	B18		S4	S4	S4	S4	S4	S4	S4	S4
P20	EON	B19		S5	S5	S5	S5	S5	S5	S5	S5
P21		B20		MHz							
P22		B21		kHz							

— MEMO —

SHARP PARTS GUIDE

MINI COMPONENT SYSTEM

MODEL CD-BA180

CD-BA180 Mini Component System consisting of CD-BA180 (main unit), CP-BA180 (front speaker) and GBOXS0040AWM1 (rear speaker).

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

CD-BA180

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CD-BA180

INTEGRATED CIRCUITS

IC1	VHILA9235M/-1	J	AQ	Servo Amp.,LA9235M
IC2	VHILC78641E-1	J	AV	Servo/Signal Control,LC78641E
IC3	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC401	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC701	RH-IX0328AWZZ	J	AX	System Microcomputer, IX0328AW
IC702,703	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC704	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC841	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC851	VHIKIA7805P-1	J	AF	Voltage Regulator,KIA7805P
IC852	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
IC901	VHISTK40204-1	J	AX	Power AMP.,STK40204

TRANSISTORS

Q1	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q2	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q3	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q101	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q102,103	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q104~107	VS2SC1845F/-1	J	AC	Silicon,NPN,2SC1845 F
Q108~111	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q112	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q113	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q114	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q302	VSKTC3194Y/-1	J	AD	Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q401,402	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q601~604	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q605,606	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q607	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q608	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q609	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q801	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q831	VSKTC2026//-1	J	AF	Silicon,NPN,KTC2026
Q901~904	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q951	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q971	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y

DIODES

D21,22	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D301,302	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D305	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D403,404	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D601~604	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D607	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D611	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D613~618	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D620,621	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D801	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM
D802~808	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D851	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D901~903	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D951	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
D971	VHDDS1SS133-1	J	AB	Silicon,DS1SS133
LED722	VHP4204SRT7-1	J	AD	LED,Red,4204SRT7
ZD61	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD601	VHEDZ6R2BSC-1	J	AB	Zener,6.2V,DZ6.2BSC
ZD801	VHEDZ300BSB-1	J	AB	Zener,30V,DZ30BSB
ZD802	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
ZD803	VHEDZ130BSB-1	J	AB	Zener,13V,DZ13BSB

FILTERS

BF301	RFILR0008AWZZ	J	AE	Band Pass Filter
CF303	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

TRANSFORMERS

⚠ PT801	RTRNP0294AWZZ	J	BC	Power
T301	RCILB0065AWZZ	J	AC	OSC,FM
T302	RCILI0017AWZZ	J	AB	FM IF
T303	RCILA0052AWZZ	J	AE	AM Antenna
T306	RCILB0067AWZZ	J		AM OSC
T351	RCILI0019AWZZ	J	AD	AM IF

COILS

L61	VP-XHR82K0000	J	AC	0.82 µH
L62	VP-DH2R2K0000	J	AB	2.2 µH,Choke
L104	VP-MK331K0000	J	AB	330 µH,Choke
L312	RCILR0056AWZZ	J	AB	FM RF
L351,352	VP-DH101K0000	J	AB	100 µH,Choke
L601	VP-DH101K0000	J	AB	100 µH,Choke
L920,921	RCILZ0026AWZZ	J		0.29 µH

VARIABLE CAPACITORS

VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
VD302,303	VHCKDV147B/-1	J	AH	Variable Capacitance,KDV147B

VIBRATORS

X1	92LCRSTL1746AT	J	AH	Crystal,16.9344 MHz
X351	92LCRSTL1425A	J	AF	Crystal,456 kHz
X352	RCRSP0019AWZZ	J		Crystal,4.5 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.1943 MHz

CAPACITORS

C6	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C7	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C8	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C11	RC-EZY476AF0J	J	AB	47 µF,6.3V,Electrolytic
C12	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C13	VCKYTV1HB103K	J	AA	0.01 µF,50V
C14	VCFYDA1HA334J	J	AC	0.33 µF,50V,Thin Film
C17	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C18	VCCCTV1HH3R0C	J	AA	3 pF (CH),50V
C20,21	VCTYPA1CX104K	J	AB	0.1 µF,16V
C22	VCKYTV1HB101K	J	AA	100 pF,50V
C23	VCTYPA1CX473K	J	AA	0.047 µF,16V
C24	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C25	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C26	VCTYPA1CX473K	J	AA	0.047 µF,16V
C27	VCKYBT1HF104Z	J	AC	0.1 µF,50V
C28	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C29,30	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C31	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C34	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C38,39	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C40	VCKYTV1HB152K	J	AA	0.0015 µF,50V
C41	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C42	VCCCTV1HH680J	J	AA	68 pF (CH),50V
C43	VCKYTV1HB152K	J	AA	0.0015 µF,50V
C44	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C45	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C46	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C47	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C49,50	VCEAZA0JW107M	J	AC	100 µF,6.3V,Electrolytic
C51	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C52	VCTYPA1CX103K	J	AA	0.01 µF,16V
C53	VCKYTV1HB102K	J	AA	0.001 µF,50V
C54	VCEAZA1AW476M	J	AB	47 µF,10V,Electrolytic
C55	VCKYTV1HB103K	J	AA	0.01 µF,50V
C56	VCEAZA0JW337M	J	AC	330 µF,6.3V,Electrolytic
C64	RC-EZY476AF0J	J	AB	47 µF,6.3V,Electrolytic
C71	VCKYTV1HB101K	J	AA	100 pF,50V
C72	VCKYTV1HB103K	J	AA	0.01 µF,50V
C73~78	VCKYTV1HB101K	J	AA	100 pF,50V
C80~83	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C102,103	VCKYMN1HB102K	J	AA	0.001 µF,50V
C104,105	VCKYMN1HB181K	J	AA	180 pF,50V
C106,107	VCKYMN1HB102K	J	AA	0.001 µF,50V
C108	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C112~115	VCKYMN1HB331K	J	AA	330 pF,50V
C116,117	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C118,119	VCTYPA1EX333K	J	AA	0.033 µF,25V
C120,121	VCKYMN1HB561K	J	AA	560 pF,50V
C122,123	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C126,127	VCKYMN1HB271K	J	AA	270 pF,50V
C128,129	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C130,131	VCTYPA1CX223K	J	AA	0.022 µF,16V
C132,133	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C134,135	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C136	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C137	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C138	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C139	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C140	VCQPKA2AA822J	J	AA	0.0082 µF,100V,Polypropylene
C141	VCQYKA1HM393K	J	AB	0.039 µF,50V,Mylar
C142	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C143	VCKYMN1CX222K	J	AA	0.0022 µF,16V
C144	VCKYPA1HB222K	J	AA	0.0022 µF,50V
C145	VCKYMN1HB102K	J	AA	0.001 µF,50V
C148	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C150	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C301	VCTYMN1CY103N	J	AA	0.01 µF,16V
C302	VCKYMN1HB102K	J	AA	0.001 µF,50V
C303	VCCCMN1HH100J	J	AA	10 pF (CH),50V
C304	VCTYMN1CY103N	J	AA	0.01 µF,16V
C305	VCCCMN1HH4R7C	J	AA	4.7 pF (CH),50V
C306	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C307	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C308	VCCSMN1HL4R7C	J	AA	4.7 pF,50V
C309	VCKYMN1HB102K	J	AA	0.001 µF,50V
C310	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C311	VCCCMN1HH180J	J	AA	18 pF (CH),50V
C312	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C313	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C314,315	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C316	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C317	VCKYMN1HB102K	J	AA	0.001 µF,50V
C318	VCKYMN1HB101K	J	AA	100 pF,50V
C323	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C324	VCCUMN1HJ8R2D	J	AA	8.2 pF (UJ),50V
C326	VCKYBT1HB102K	J	AA	0.001 µF,50V
C330	VCCUMN1HJ150J	J	AA	15 pF (UJ),50V
C331	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C332	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C335	VCKYMN1HB561K	J	AA	560 pF,50V
C338	VCKYMN1HB102K	J	AA	0.001 µF,50V
C342	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C350,351	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C352	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C353,354	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C355	VCCSMN1HL220J	J	AA	22 pF,50V
C356	VCKYMN1HB102K	J	AA	0.001 µF,50V
C357	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C358	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C361	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C362	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C363	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C364	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C365	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C366	VCKYMN1HB102K	J	AA	0.001 µF,50V
C367,368	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C369	VCCUMN1HJ270J	J	AA	27 pF (UJ),50V
C370~372	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C373,374	VCTYPA1CX153K	J	AA	0.015 µF,16V
C375	VCKYMN1HB102K	J	AA	0.001 µF,50V
C380	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF (CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C385	VCTYMN1CY103N	J	AA	0.01 µF,16V
C386	VCKYMN1HB331K	J	AA	330 pF,50V
C387	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C391	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C394	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C396	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C397	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C398	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C399	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C401,402	VCKYMN1HB102K	J	AA	0.001 µF,50V
C403	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C404	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C405	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C406	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C407,408	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C409~412	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C413,414	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C417,418	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C419,420	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C421~428	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C429,430	VCKYMN1HB391K	J	AA	390 pF,50V
C601	VCCSPA1HL271J	J	AA	270 pF,50V
C602	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C603,604	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C605	VCKYMN1HB271K	J	AA	270 pF,50V
C606	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C607,608	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C609	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C610	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C611	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C612~614	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C616	VCEAEA1HW105M	J	AB	1 µF,50V,Electrolytic
C617,618	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C620	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C621	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C622	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C623	VCCCMN1HH180J	J	AA	18 pF (CH),50V
C624	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C625	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C626	VCEAEA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C628	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C629	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C630	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C631	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C632	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C634	VCKYBT1HB102K	J	AA	0.001 µF,50V
C801,802	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C803,804	VCEAZW1HW228M	J	AH	2200 µF,50V,Electrolytic
C805,806	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C807	VCEAZW1EW338M	J	AG	3300 µF,25V,Electrolytic
C808,809	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C810	VCEAZV1HW227M	J	AD	220 µF,50V,Electrolytic
C811	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C812	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C813	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C831	VCEAZA1EW227M	J	AC	220 µF,25V,Electrolytic
C832	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C833	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C834	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C841,842	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C843	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C851	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C852	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C853,854	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C855	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C901,902	VCCSPA1HL221J	J	AA	220 pF,50V
C903,904	VCCSPA1HL150J	J	AA	15 pF,50V
C905,906	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C907,908	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C909,910	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C911,912	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C917	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C930,931	VCEAZA1HW226M	J	AB	22 µF,50V,Electrolytic
C935,936	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C971	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C972	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic

RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R3	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R4	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R5	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R6	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R7	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R8	VRS-TV2AB331J	J	AA	330 ohms,1/10W
R10	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R11	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R12,13	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R14	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R15	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R16	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R17	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R19	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R20	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R21,22	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R25	VRD-ST2CD103J	J	AA	10 kohm,1/6W

CD-BA180

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R35	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R38	VRD-ST2CD271J	J	AA	270 ohms,1/6W
R39	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R40	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R42	VRS-TV2AB124J	J	AA	120 kohms,1/10W
R44	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R45	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R46	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R47	VRD-ST2EE3R3J	J	AA	3.3 ohms,1/4W
R48	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R50	VRS-TV2AB470J	J	AA	47 ohms,1/10W
R51~54	VRS-TV2AB683J	J	AA	68 kohms,1/10W
R55,56	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R58	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R67,68	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R71~78	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R79	VRS-TV2AB155J	J	AA	1.5 Mohms,1/10W
R80	VRD-ST2CD105J	J	AA	1 Mohm,1/6W
R81,82	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R83,84	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R94,95	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R96	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R101,102	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R103	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R104,105	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R106,107	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R108,109	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R110	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R111,112	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R113	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R114,115	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R116,117	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R118,119	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R120,121	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R122,123	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R124,125	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R126	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R127,128	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R129,130	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R131,132	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R133,134	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R135,136	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R137	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R138	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R139	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R140	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R141	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R142,143	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R144	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R145	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R146	VRD-RT2HD820J	J	AA	82 ohms,1/2W
R147	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R148	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R149	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R157	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R302	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R309	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R311	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R313	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R314	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R316	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R322	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R325	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R327	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R336	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R350	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R351	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R352	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R353	VRD-MN2BD271J	J	AA	270 ohms,1/8W
R355	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R356	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R359	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
R360	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R361~365	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R372~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R375	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R376	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R377	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R378	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R384	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R385	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R387	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R388	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R391,392	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R393	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R395	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R401,402	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R403,404	VRD-MN2BD272J	J	AA	2.7 kohms,1/8W
R407	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R408	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R409,410	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R415,416	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R417,418	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R419,420	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R421,422	VRD-MN2BD273J	J	AA	27 kohms,1/8W
R423,424	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R425	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R601	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R602	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R603	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R604	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R605	VRD-MN2BD563J	J	AA	56 kohms,1/8W
R606	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R607	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R608	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R609	VRD-MN2BD474J	J	AA	470 kohms,1/8W
R610	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R611	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R612	VRD-ST2CD105J	J	AA	1 Mohm,1/6W
R613	VRD-MN2BD824J	J	AA	820 kohms,1/8W
R614	VRD-ST2CD394J	J	AA	390 kohms,1/6W
R615	VRD-MN2BD154J	J	AA	150 kohms,1/8W
R616	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R617	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R618	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R619	VRD-ST2CD225J	J	AA	2.2 Mohms,1/6W
R620	VRD-MN2BD184J	J	AA	180 kohms,1/8W
R621	VRD-MN2BD330J	J	AA	33 ohms,1/8W
R622	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R623,624	VRD-ST2EE271J	J	AA	270 ohms,1/4W
R625~627	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R629	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R632~635	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R636	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R637	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R638	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R640	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R642	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R643,644	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R645	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R646~648	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R649	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R650	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R651,652	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R653	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R654	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R655	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R656	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R658	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R659	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R660	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R661	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R662	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R663~665	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R666	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R667,668	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R669,670	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R671	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R672	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R673~675	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R676	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R678~694	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R695~697	VRD-ST2CD681J	J	AA	680 ohms,1/6W
R698~700	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R701~703	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R704	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R705,706	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R707	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R708	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R709,710	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R711	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R712,713	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R714	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R715	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
R716	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R717	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R718	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R719	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R720	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R721	VRD-ST2CD183J	J	AA	18 kohms,1/6W
R722	VRD-ST2CD333J	J	AA	33 kohms,1/6W
R723	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R724	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R725	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R801,802	VRD-ST2EE223J	J	AA	22 kohms,1/4W
R803	VRS-VV3DA681J	J	AC	680 ohms,2W
R804	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R805	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R806	VRD-ST2CD100J	J	AA	10 ohm,1/6W
R807	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R831	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R832	VRD-RT2HD330J	J	AA	33 ohms,1/2W
R833	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R841	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R842	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R851	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R901,902	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R903,904	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R905,906	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R907,908	VRN-VV3AAR10J	J	AB	0.1 ohm,1W
R909,910	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R911,912	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R913~915	VRD-ST2CD563J	J	AA	56 kohms,1/6W
⚠ R918,919	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R920	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R931,932	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R933,934	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R951,952	VRD-RT2HD331J	J	AA	330 ohms,1/2W
R953,954	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R971	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R972	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R973	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R975	VRD-RT2HD4R7J	J	AA	4.7 ohms,1/2W

OTHER CIRCUITRY PARTS

BI4/CNS4	QCNWN1572AWZZ	J	AF	Connector Ass'y,6/6Pin
BI402/CNS402	QCNWN1561AWZZ	J	AF	Connector Ass'y,5Pin
BI701/CNS701	QCNWN1562AWZZ	J	AH	Connector Ass'y,10/10Pin
CNP1	QCNCM704GAWZZ	J	AC	Plug,7Pin
CNP2	QCNCM704HAWZZ	J	AC	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP4	QCNCM705FAFZZ	J	AB	Plug,6Pin
CNP11	92LCONE5P53254	J	AB	Plug,5Pin
CNP12	92LCONEAP53254	J	AD	Plug,10Pin
CNP101	QCNCM705CAFZZ	J	AA	Plug,3Pin
CNP102	QCNCM705GAFZZ	J	AB	Plug,7Pin
CNP301	92LCONE3P5268	J	AC	Plug,3Pin
CNP401	QCNCWZG23AWZZ	J	AK	Socket,23Pin
CNP702	QCNCWZF23AWZZ	J	AK	Socket,23Pin
CNP703	QCNCWZF13AWZZ	J	AC	Socket,13Pin
CNP801	QCNCM049BAWZZ	J	AC	Plug,2Pin
CNP802	QCNCM035HAWZZ	J	AB	Plug,8Pin
CNP951	QCNCW012EAWZZ	J	AC	Socket,5Pin
CNP971	92LCONE2P53253	J	AB	Plug,2Pin
CNS1A/B	QCNWN1537AWZZ	J	AG	Connector Ass'y,7/7Pin
CNS2A/B	QCNWN1538AWZZ	J	AG	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1539AWZZ	J	AE	Connector Ass'y,6/6Pin
CNS971	QCNWN1389AWZZ	J	AC	Connector Ass'y,2Pin
⚠ F801,802	92LFUSET402D	J	AC	Fuse,4A/125V
⚠ F803	92LFUSET202D	J	AD	Fuse,2A/250V
FC701	QCNWN1564AWZZ	J	AG	Flat Cable,23Pin
FC702	QCNWN1544AWZZ	J	AE	Flat Cable,13Pin
FL701	VVKBJ11LM02T1	J		FL Display
FW951	QCNWN1563AWZZ	J	AD	Flat Wire,5Pin
JK951	QJAKM0004AWZZ	J	AK	Jack,Headphones
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
M3	92LTWMEN7E6Y	J	AR	Motor with Worm Pulley [T/T Up/Down Loading]
M901	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan
RL951	RRLYD0014AWZZ	J	AK	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
SO401	QSOCJ0219AWZZ	J	AD	Jack,Video/AUX
SO801	QSOCA0214AWZZ	J	AD	Socket,AC Input
SO901	QTANA0808AWZZ	J	AF	Terminal,Speaker
SW1	SWMPU10780MLB	J	AH	Switch,Push Type [Open/Close]
SW2	SWMPU11470MLB	J	AE	Switch,Push Type [Clamp]
SW3	SWMPU11470MLB	J	AE	Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW601	92LSWICH1663T	J	AC	Switch,Key Type [POWER]
SW602	92LSWICH1663T	J	AC	Switch,Key Type [CLOCK]
SW603	92LSWICH1663T	J	AC	Switch,Key Type [TIMER/SLEEP]
SW609	92LSWICH1663T	J	AC	Switch,Key Type [DISC SKIP]
SW610	92LSWICH1663T	J	AC	Switch,Key Type [OPEN/CLOSE]
SW611	92LSWICH1663T	J	AC	Switch,Key Type [DIMMER]
SW612	92LSWICH1663T	J	AC	Switch,Key Type [X-BASS/DEMO]
SW613	92LSWICH1663T	J	AC	Switch,Key Type [EQUALIZER]
SW614	92LSWICH1663T	J	AC	Switch,Key Type [VOLUME UP]
SW615	92LSWICH1663T	J	AC	Switch,Key Type [VOLUME DOWN]
SW616	92LSWICH1663T	J	AC	Switch,Key Type [CD]
SW617	92LSWICH1663T	J	AC	Switch,Key Type [TAPE]
SW618	92LSWICH1663T	J	AC	Switch,Key Type [TUNING/TIME DOWN]
SW619	92LSWICH1663T	J	AC	Switch,Key Type [MEMORY/SET]
SW620	92LSWICH1663T	J	AC	Switch,Key Type [PRESET DOWN]
SW621	92LSWICH1663T	J	AC	Switch,Key Type [PRESET UP]
SW622	92LSWICH1663T	J	AC	Switch,Key Type [PLAY/REPEAT]
SW623	92LSWICH1663T	J	AC	Switch,Key Type [STOP]
SW625	92LSWICH1663T	J	AC	Switch,Key Type [REC/PAUSE]
SW626	92LSWICH1663T	J	AC	Switch,Key Type [TUNING/TIME UP]
SW627	92LSWICH1663T	J	AC	Switch,Key Type [VIDEO/AUX]
SW628	92LSWICH1663T	J	AC	Switch,Key Type [TUNER (BAND)]

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0080AWZZ	J	AC	Rail,Guide
304	NSFTM0020AWFW	J	AD	Shaft,Guide
305	92LMCUSN1524A	J	AD	Cushion
⚠ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	92LCAB3286AASY	J		Front Cabinet Ass'y
201- 1	————		—	Front Panel (Not Replacement Item)
201- 2	GDORF0074AWSA	J	AE	Cassette Holder,Tape 1
201- 3	GDORF0075AWSA	J	AE	Cassette Holder,Tape 2
201- 4	GCOVA1251AWSA	J	AH	Cover,Cassette Holder,Tape 1
201- 5	GCOVA1252AWSA	J	AH	Cover,Cassette Holder,Tape 2
201- 6	HDECQ0521AWSA	J	AD	Panel,Cassette Holder,Tape 1
201- 7	HDECQ0522AWSA	J	AD	Panel,Cassette Holder,Tape 2
201- 8	HDECQ0614AWSA	J		Panel,Amp.
201-10	JKNBZ0649AWSA	J	AF	Button,Volume
201-11	JKNBZ0648AWSA	J	AG	Button,Center Operation
201-12	JKNBZ0657AWSA	J	AF	Button,Power/Clock
201-13	JKNBZ0658AWSA	J	AF	Button,Function,A
201-14	JKNBZ0659AWSA	J	AF	Button,Function,B
201-15	JKNBZ0660AWSA	J	AF	Button,Tuning
201-16	JKNBZ0661AWSA	J	AE	Button,Dimmer
201-20	GCOVA1258AWSA	J	AB	Cover,Power LED

CD-BA180

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
201-21	MLIFP0008AWZZ	J	AD	Damper
201-22	MSPRD0151AWFJ	J		Spring,Cassette Holder,Tape 1
201-23	MSPRD0152AWFJ	J		Spring,Cassette Holder,Tape 2
201-24	92LBADGE1671A	J	AC	Badge,SHARP
201-25	JKNBZ0650AWSA	J	AF	Button,Disc Skip/X-BASS
202	92LCAB3283BASY	J	AM	Side Panel Ass'y,Left
202- 1	————		—	Side Panel,Left (Not Replacement Item)
202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
203	92LCAB3283CASY	J	AM	Side Panel Ass'y,Right
203- 1	————		—	Side Panel,Right (Not Replacement Item)
203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
204	92LCOV3303AASY	J	AK	CD Tray Cover Ass'y
204- 1	————		—	Cover,CD Tray (Not Replacement Item)
204- 2	GCOVA1254AWSA	J	AE	Cover,CD Tray,Left
204- 3	GCOVA1255AWSA	J	AE	Cover,CD Tray,Right
205	GCAB-1184AWSA	J	AP	Top Cabinet
206	GITAR0625AWSA	J		Rear Panel
208	LANGK0110AWFW	J	AE	Bracket,Cassette Lock,Tape 1
209	LANGK0111AWFW	J	AE	Bracket,Cassette Lock,Tape 2
210	LANGK0192AWFW	J	AD	Bracket,Fan Motor
213	LCHSM0094AWFW	J	AP	Main Chassis
214	LHLDZ1241AWZZ	J	AE	Holder,FL Display
219	MLOKC0003AWZZ	J	AD	Lock Lever,Cassette,Tape 1
220	MLOKC0004AWZZ	J	AD	Lock Lever,Cassette,Tape 2
221	MSPRD0109AWFJ	J	AB	Spring,Cassette Lock,Tape 1
222	MSPRD0110AWFJ	J	AB	Spring,Cassette Lock,Tape 2
223	NFANP0001AWZZ	J	AD	Rotary Fan
224	92LPT0331105	J	AM	Turntable
225	PCUSG0022AWZZ	J	AB	Cushion,Leg
226	PRDAR0148AWFW	J	AR	Heat Sink
230	QCNWN1615AWZZ	J	AC	Lug Wire
⚠231	QFSHD0001AWZZ	J	AB	Holder,Fuse
232	92LBE241414	J	AD	Belt
233	92LCSPR1431C	J	AA	Spring,Ring
234	92LEVA0330702	J	AD	Cushion,CD Player Unit
235	92LMAG0104302	J	AE	Magnet
236	92LMT0304302	J	AB	Plate,Metal
237	92LNBAND1318A	J	AA	Nylon Band,80mm
238	92LNM0305401	J	AB	Velvet Cushion
239	92LPT0303002	J	AB	Roller
240	92LPT0304303	J	AB	Lever,Stop
241	92LPT0304304	J	AB	Stopper,Cam Gear
242	92LPT0304305	J	AE	Lever,Lock
243	92LPT0304306	J	AG	Stabilizer
244	92LPT0304307	J	AC	Support,Cam
245	92LPT0304308	J	AB	Lock Gear Pin
246	92LPT0304309	J	AB	Cap,Pulley Stopper
247	92LPT0305413	J	AG	Cam Gear Lower
248	92LPT0309506	J	AD	Gear,Turntable Drive
249	92LPT0309507	J	AD	Gear,Open/Close Drive
250	92LPT0309508	J	AD	Gear,Planet
251	92LPT0309509	J	AD	Gear,Drive
252	92LPT0309510	J	AE	Gear,Pulley
253	92LPT0309511	J	AD	Gear,Middle
254	92LPT0311101	J	AB	Lever,Clamp
255	92LPT0311102	J	AC	Lever,Disc
256	92LPT0312005	J	AL	Gear,Cam
257	92LPT0320201	J	AE	Support,Stabilizer
258	92LPT0330301	J	AU	Chassis,CD Player Unit
259	92LPT0330803	J	AK	CD,Chassis
260	92LPT0331003	J	AT	Shassis,Disc Tray
262	92LSP0304303	J	AB	Spring,Stopper
263	92LSP0304305	J	AB	Spring,Lock
264	92LSP0304306	J	AB	Spring,Lock Gear
267	LANGK0184AWFW	J	AG	Bracket,Main PWB
268	KMECB0011AWZZ	J	BH	Tape Mechanism Ass'y
269	PSHEZ0067AWZZ	J	AC	Sheet,PWB Support
270	LANGF0039AWFW	J	AD	Bracket,Power Transformer
271	QLUGP0002AWZZ	J	AB	Lug Terminal
272	QLUGP0001AWZZ	J	AC	Lug Terminal
601	XBBSD20P04000	J	AA	Screw,ø2×4mm
604	XEBSD30P12000	J	AA	Screw,ø3×12mm
605	XESSD30P10000	J	AA	Screw,ø3×10mm
606	XHBSD26P04000	J	AA	Screw,ø2.6×4mm
607	XJBSD30P12000	J	AA	Screw,ø3×12mm
608	XJBSD30P10000	J	AA	Screw,ø3×10mm
609	XJBSD30P14000	J	AA	Screw,ø3×14mm
611	XJSSD30P10000	J	AA	Screw,ø3×10mm
612	LX-HZ0009AWFD	J	AC	Screw,Special
613	XHBSD40P10000	J	AA	Screw,ø4×10mm
614	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
615	XEBSD30P10000	J	AA	Screw,ø3×10mm
616	LX-BZ2222AXZZ	J	AB	Screw,Special
617	LX-JZ0004AWFD	J	AA	Screw,ø3×12mm
618	92LSC0308MBZI	J	AB	Screw,ø3×8mm
619	92LSC0308RBZI	J		Screw,ø3×8mm

ACCESSORIES/PACKING PARTS

⚠	QACCD0028AWZZ	J		AC Power Supply Cord
	QANTL0007AWZZ	J	AK	AM/FM Loop Antenna
	SPAKA0245AWZZ	J	AM	Packing Add.
	SPAKC0989AWZZ	J		Packing Case
	SPAKP0013AWZZ	J	AC	Polyethylene Bag,Unit
	SPAKZ0573AWZZ	J	AB	CD Tray Sheet
	SPAKZ0623AWZZ	J	AL	Center Pad
	TINSZ0588AWZZ	J		Operation Manual
	TLABN0112AWZZ	J	AA	Serial No.Label
	TLABR1152AWZZ	J		Label,Bar Code
	TLABZ0692AWZZ	J	AC	Label,Feature,Tape 1
	TLABZ0697AWZZ	J	AC	Label,Feature,Tape 2
	92LBAG1460C1	J	AB	Polyethylene Bag,Accessories
	RRMCG0219AWSA	J	AR	Remote Control
	GFTAB1022AWSB	J	AK	Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~4	92LPWB3286MANS	J	—	Main/Display/Headphones/AC Socket (Combined Ass'y)
PWB-B	92LPWB3303CDUS	J	—	CD Servo
PWB-C	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-D	————		—	Tape Mechanism
PWB-E	92LPC99C017	J	AE	CD Loading Motor (PWB Only)

OTHER SERVICE PART

	UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner

CP-BA180

SPEAKER BOX PARTS

901	92L126-0009	J	BA	Front Panel Ass'y,Left
902	92L126-0010	J	BA	Front Panel Ass'y,Right
903	92L121-0178	J	AP	Net Frame Ass'y
904	92L051-0079	J		Speaker Box Ass'y,Left
905	92L051-0085	J		Speaker Box Ass'y,Right
907	92L394-0056	J	AC	Foot Cushion
908	92L394-0055	J	AC	Port Cushion
909	92L351-0373	J		Label,Specifications
912	92L319-0027	J	AE	Catching Holder
913	92L372-0109	J	AB	Screw,ø3×10mm
914	92L372-0124	J	AB	Screw,ø4×12mm
915	92L122-0048	J	AG	Speaker Cord Ass'y (With Capacitor)
SP1,2	VSP0051TBN98A	J	AQ	Tweeter
SP3,4	VSPA010WB24WA	J	AU	Woofer
SP5,6	VSPA010WB24WA	J	AU	Woofer

PACKING PARTS

	92L411-0075	J	AG	Polyethylene Bag,Front Speaker
	92L412-0133	J	AN	Packing Add.,Top/Bottom
	92L416-0068	J	AC	Layer Pad

GBOXS0040AWM1

SPEAKER BOX PARTS

901	92L60-00-1190	J	AP	Net Frame Ass'y
902	92L32-01-0510	J		Bottom Cabinet
903	92L37-03-0110	J	AK	Speaker Cord
904	92L33-01-1680	J		Label,Part Cord
905	92L35-02-0320	J	AB	Screw,ø3×14mm
SP1,2	VSPA010PB23WA	J		Speaker

PACKING PARTS

	92L41-05-0340	J		Packing Add.,Top/Bottom
	92L41-08-0360	J		Polyethylene Bag,Rear Speaker

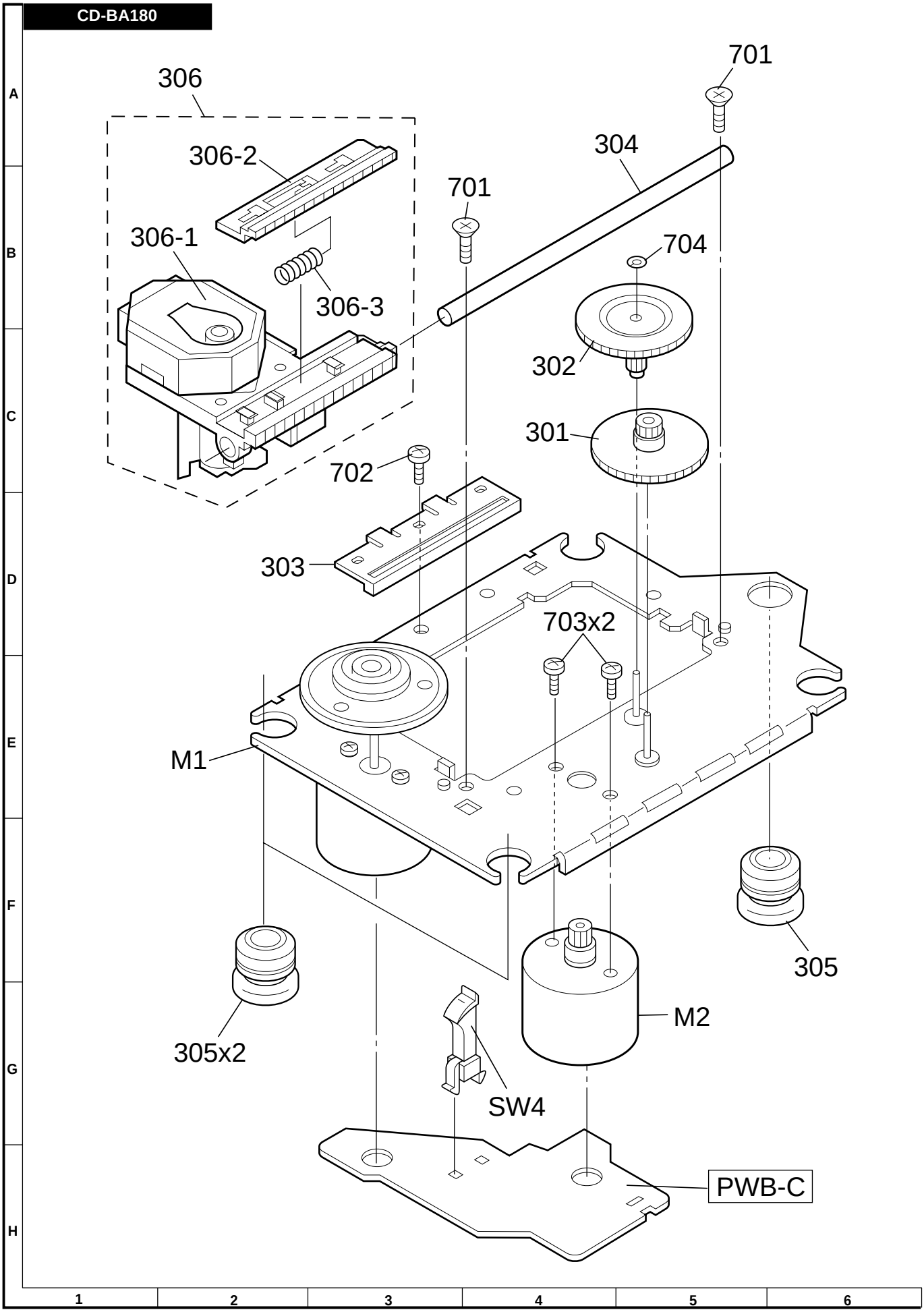


Figure 6 CD MECHANISM EXPLODED VIEW

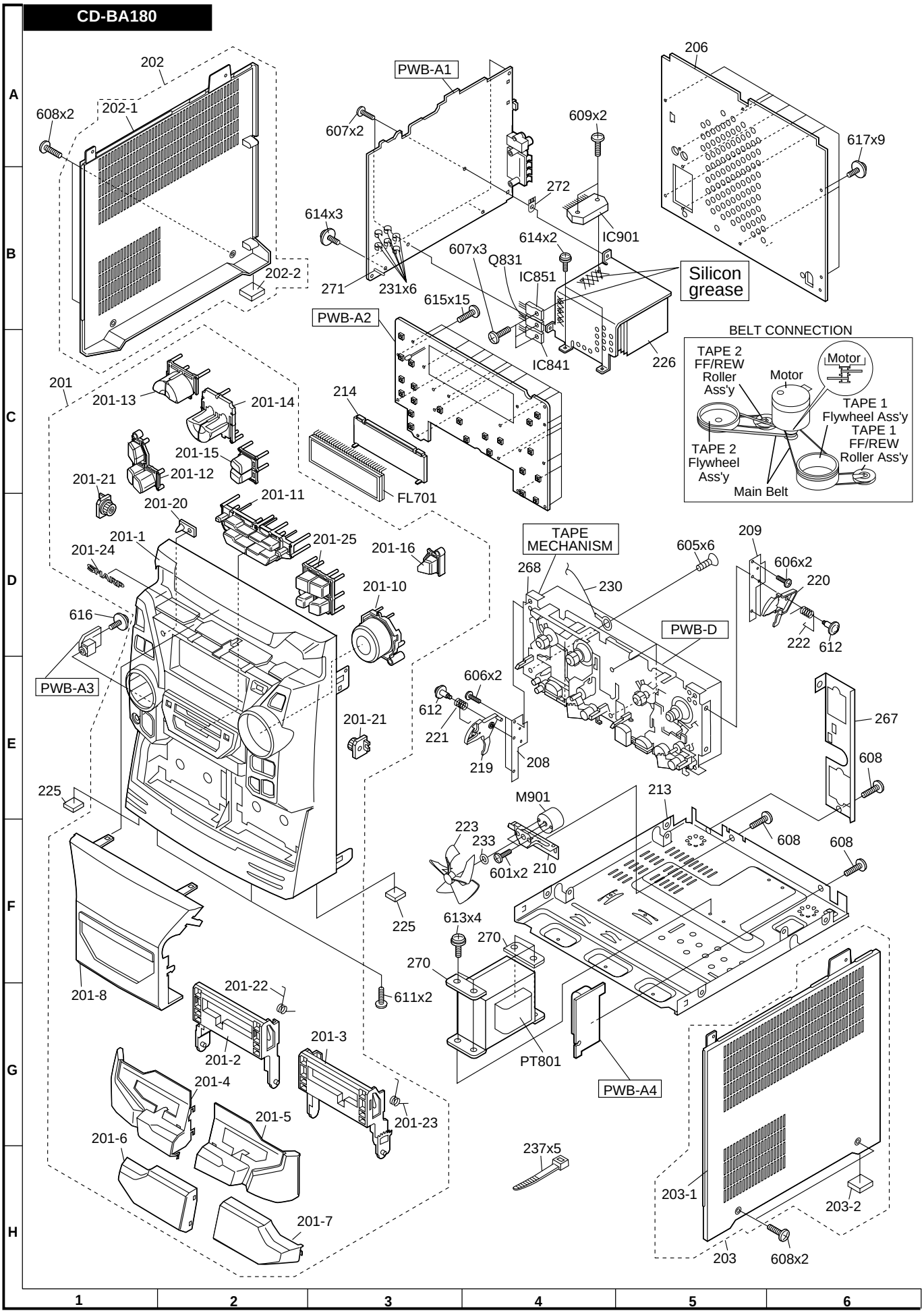


Figure 7 CABINET EXPLODED VIEW (1/2)

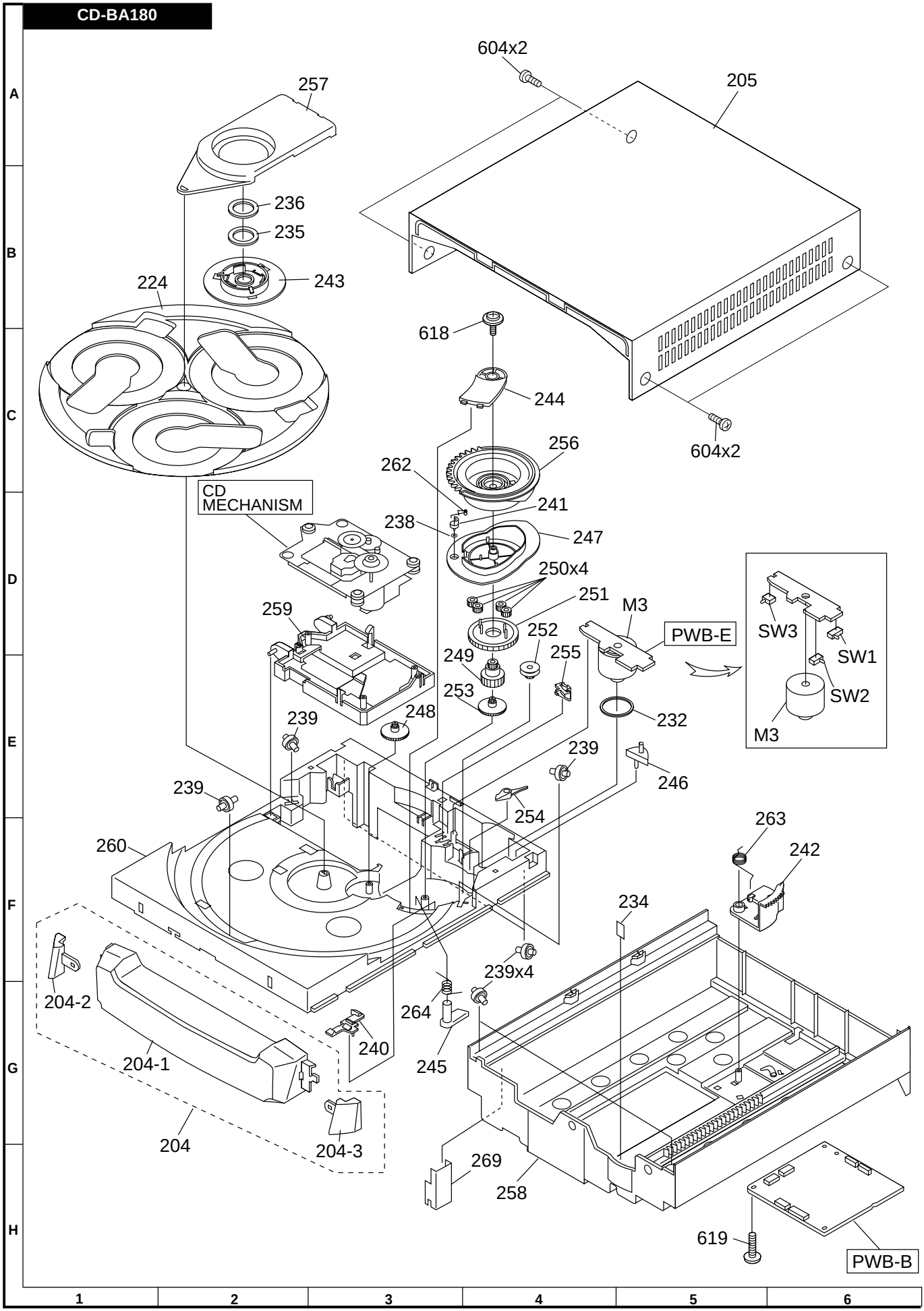


Figure 8 CABINET EXPLODED VIEW (2/2)

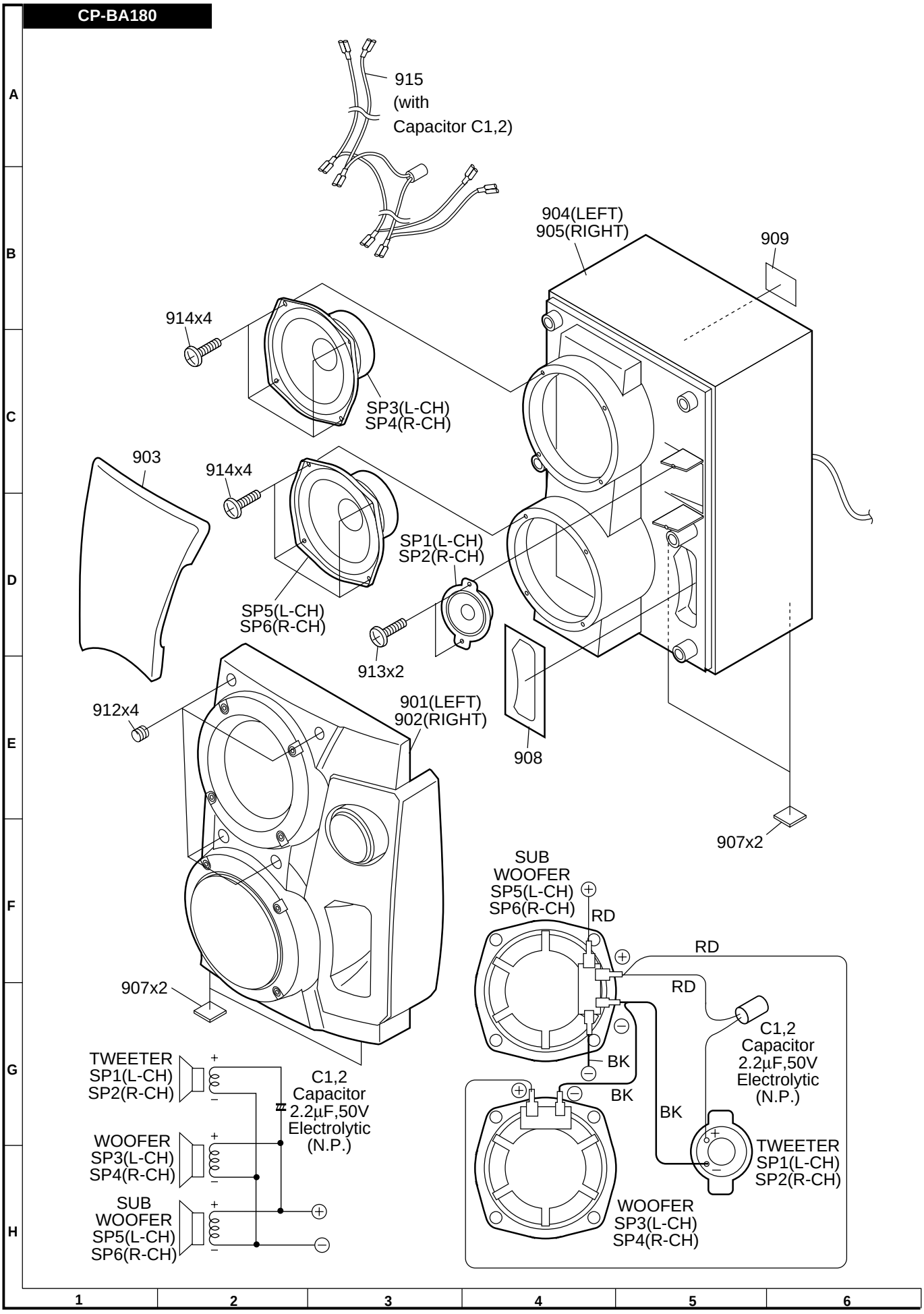


Figure 9 SPEAKER EXPLODED VIEW (1/2)

GBOXS0040AWM1

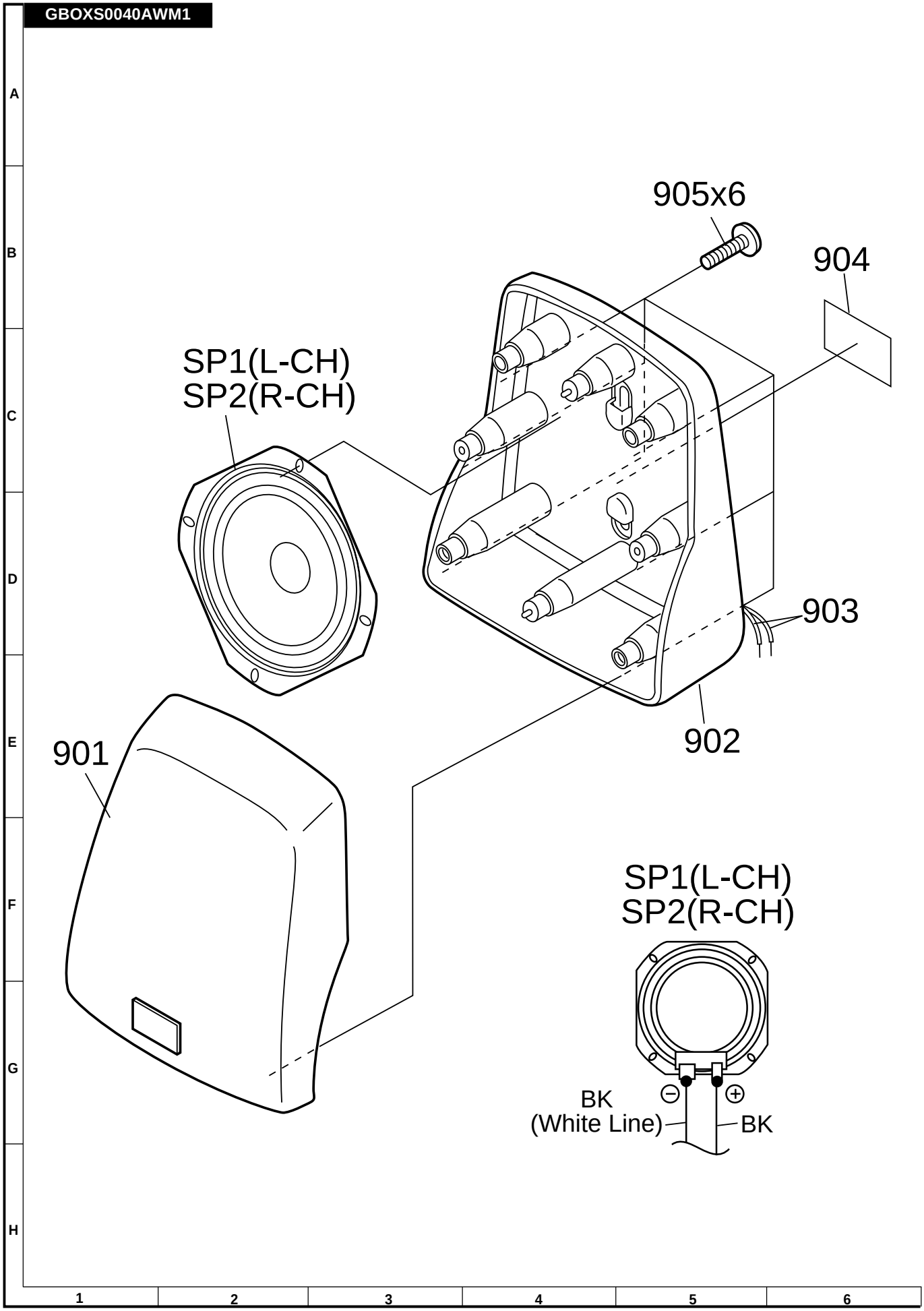


Figure 10 SPEAKER EXPLODED VIEW (2/2)

CD-BA180

SHARP

COPYRIGHT © 2000 BY SHARP CORPORATION

ALL RIGHTS RESERVED.

No part of this publication may be reproduced,
stored in a retrieval system, or transmitted in
any form or by any means, electronic, mechanical,
photocopying, recording, or otherwise, without
prior written permission of the publisher.

SHARP CORPORATION
Communication Systems Group
Quality & Reliability Control Center
Higashihiroshima, Hiroshima 739-0192, Japan
Printed in Japan

A0007-164DS•HA•M

LAG(MEX)